=> d ibib ab fhit 1-3

L6 ANSWER 3 OF 3 CASREACT COPYRIGHT 2003 ACS (Continued)

H Me (CH2) 3 CHNe2

C YIELD 808 (25)

RX(1) RCT A 601-57-0 RGT D 74087-85-7 Dimethyldioxirane PRO B 2515-12-0, C 1975-34-4 SOL 67-64-1 He2CO

```
Uploading 627.str
L7 STRUCTURE UPLOADED
=> s 17 full
SCREENING COMPLETE - 11165 REACTIONS TO VERIFY FROM 1460 DOCUMENTS
SEARCH TIME: 00.00.01
=> d his
```

FULL SEARCH INITIATED 09:07:52 FILE 'CASREACT'

100.0% DONE 11165 VERIFIED 405 HIT RXNS

154 DOCS

154 SEA SSS FUL L7 ( 405 REACTIONS)

(FILE 'HOME' ENTERED AT 09:00:53 ON 07 MAR 2003)

FILE 'CASREACT' ENTERED AT 09:01:03 ON 07 MAR 2003 STRUCTURE UPLOADED

L1L2 7 S L1

L3 154 S L1 FULL .

134 S L3 NOT PY>=2000 L4

FILE 'REGISTRY' ENTERED AT 09:03:39 ON 07 MAR 2003

106 S DIOXIRANE L5

FILE 'CASREACT' ENTERED AT 09:04:10 ON 07 MAR 2003

3 S L3 AND L5 L6

STRUCTURE UPLOADED L7

L8 154 S L7 FULL

=> s 18 and 15

541 L5

L9 3 L8 AND L5

=> d ibib ab fhit 1-14

L11 ANSVER 1 OF 14 CASREACT COPYRIGHT 2003 ACS
ACCESSION NUMBER:
134:29610 CASREACT
TITLE:
Highly .beta.-selective epoxidation of
.DELTA.5-unsaturated steroids catalyzed by ketones
AUTHOR(S):
Yang, Dany Jiao, Guan-Sheng
CORPORATE SOURCE:
Department of Chemistry, The University of Hong Kong,
Hong Kong, Peop. Rep. China
Chemistry-A European Journal (2000), 6(19), 3517-3521
CODEN: CEUJED; ISSN: 0947-6539
PUBLISHER:
Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE:
AB A general catalytic and environmentally friendly method for
.beta.-epoxidn of .DELTA.5-unsatd. steroids has been developed, which
uses ketones as the catalysts and Oxone as the terminal oxidant. A whole
range of .DELTA.5-unsatd. steroids, which bear different functional groups
such as hydroxyl, carbonyl, acetyl, or ketal, as well as different side
chains, were conveniently converted to the corresponding synthetically and
biol. interesting 5.beta.-spoxides with excellent
.beta.-selectivities and high yields.

RX(1) OF 21

(1)

L11 ANSWER 2 OF 14 CASREACT COPYRIGHT 2003 ACS
ACCESSION NUMBER: 125:143127 CASREACT
TITLE: The study of epoxidation of steroidal alkenes with
potassium permanganate-inorganic salts
AUTHOR(S): Parish, Edward J., Li, Shengrong
CORPORATE SOURCE: Dep. Chem., Auburn Univ., Auburn, AL, 36049, USA
Journal of Chemical Research, Synopses (1996), (6),
288-289
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: Regard Begins
AB CuSO4 could be substituted by other transition metal salts with
non-coordinating anions in the .beta.-epoxidn. of steroidal alkenes with
RMO4-CuSO4, which suggested the face selectively might result from the
initial formation of a copper-double bond .pi.-complex on the less
hindered side. Chelesterol 3-benzoate and 3.beta.-acetoxyprogest-5-en-20one were reacted with NMO4 and CuSO4 to form the corresponding
5.beta.,6.beta.-epoxides with high yield and high disasteroselectivity.
Similar results were obtained when Cu(NO3)2, NiSO4, Ni (NO3)2, Co(NO3)2,
Fe2(SO4)3, Fe(NO3)3, ZnSO4 or Ce(NO3)3 were substituted for CuSO4. When
main group metal salts or transition metal salts, such as Co(NO3)2, MgSO4,
or Al2(SO4)3, were substituted for copper sulfate, the reaction failed.

YIELD 84% (90)

LII ANSWER 1 OF 14 CASREACT COPYRIGHT 2003 ACS (Continued)

YIELD 90%

RX (1) RCT A 474-77-1

STAGE(1) / RGT C 67-64-1 Me2CO SOL 110-71-4 (CH2OMe)2, 75-05-8 MeCN

STAGE (2)

RGT D 139-33-3 Di-Na EDTA SOL 7732-18-5 Water

STAGE(3)
ROT E 37222-66-5 Oxone, F 144-55-8 NAHCO3
PRO B 24126-45-8
NTE stereoselective (3:1 beta:alpha)
REFERENCE COUNT: 79
THERE ARE 79 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 14 CASREACT COPYRIGHT 2003 ACS

RCT N 1778-02-5 RCT D 7722-64-7 KMnO4 PRO O 14148-09-5, P 6661-94-5 CAT 7758-99-8 CUSO4.5H2O SOL 75-65-0 t-BUOH NTE stereoselective

L11 ANSWER 5 OF 14 CASREACT COPYRIGHT 2003 ACS (Continued) SOL 75-09-2 CH2C12

STAGE(2) RGT F 75-65-0 t-BuOH PRO M 6661-94-5, N 14148-09-5 NTE STEREOSELECTIVE

L11 ANSWER 6 OF 14 CASREACT COPYRIGHT 2003 ACS (Continued)

D YIELD 82%

RX (2)

RCT C 156352-58-8 RGT E 7722-84-1 H2O2, F 657-15-8 Ethanone, 2, 2, 2-trifluoro-1-(3-nitrophenyl)-, G 144-55-8 NAHCO3 PRO D 156352-99-9 SOL 7732-18-5 Water, 75-09-2 CH2C12 NTE stereoselective

L11 ANSVER 6 OF 14 CASREACT COPYRIGHT 2003 ACS
ACCESSION NUMBER:
121:109371 CASREACT
TITLE:
Synthesis and biological activity of
17-chloro-16(17)-unsaturated D-homo antiprogestins
AUTHOR(S):
Schwede, Volfgang, Cleve, Arved Neef, Guenter, Ottow,
Eckhard, Stoeckmann, Xlausy Wischert, Rudolf
CORPORATE SOURCE:
Res. Lab., Schering AG, Berlin, Germany
SOURCE:
CODEN: STEDAM, ISSN: 0039-128X

DOCUMENT TYPE:
LANGUAGE:
AB An efficient approach to 17-chloro-16(17)-unsatd. D-homo antiprogestins I
(Y = Ac, 3-pyridyl) is described. The key steps of the synthesis are a
ring-expansion via dichlorocarbene addin. to 17-silyl enol ether II (TBDMS
- tett-butyldimethylsilyl) to give D-homosteroid III and a
palladium-catalyzed coupling of 11.beta.-(4-aryltriflate) IV with
tributyl(1-ethoxyethenyl) stanname or diethyl(3-pyridinyl)borane to give,
after dekstalization, I (Y = Ac and 3-pyridyl, resp.). The new
progesterone antagonists were tested for their biol. activities and

RX (2) OF 24 ...C ---> D...

(2)

LII ANSWER 7 OF 14 CASREACT COPYRIGHT 2003 ACS

ACCESSION NUMBER: 117:212781 CASREACT

TITLE: Catalytic beta.-stereospecific epoxidation of unsaturated steroids by transdioxoruthenium(VI) tetramesitylporphyrin.

Stereochemical grounds for the beta.-diastereofacial selection

AUTHOR(S): Tavarea, Nanuellar Ramasseul, Rener Marchon, Jean Clauder Bachet, Bernardr Brassy, Clauder Mornon, Jean Paul

CORPORATE SOURCE: Lab. Chim. Coord., Cent. Etud. Nucl. Grenoble, Grenoble, 38041, Fr.

Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry (1972-1999) (1992), (8), 1321-9

COODEN: JOURNEH, ISSN: 0300-9580

DOCUMENT TYPE: Journal

AB The catalytic epoxidn. by dioxygen with transdioxoruthenium(VI) tetramesitylporphyrin (I) of the acetic esters of cholesterol, -epicholesterol and isocholesterol, as well as of the 7.alpha.-epimer of the latter, is .beta.-stereospecific. Substitution by a Me group on C-6 of pregenolone acetate results in reduced reactivity towards catalytic epoxidn. and lower .beta.-stereospecitic. Substitution by 19-Norsterol esters bearing a double bond at C-8-C-14 or C-14-C-15, e.g., II and III are inert towards epoxidn. catalyzed by I. The variable reactivity of these sterol ester substrates is explained by a transition state in which the steroid nucleus approaches the ruthenium-oxo bond approx, perpendicular to the porphyrin ring. The .beta.-selectivity of .DELTA.S-sterol ester epoxidn. is accounted for in terms of this transition state geometry which provides a good fit between the porphyrin catalyst and the steroid substrate when the .beta.-side faces the oxo ligand. On the other hand, reaction on the .alpha.-side involves unfavorable steric interactions between axial hydrogen atoms on C-3 and C-7 of the substrate and the porphyrin ring and assistly substituent of the catalyst, resp. The crystal and mol. structures of cholesteryl Etc carbonate and of its 5,6.beta.-epoxide have been detd. by single-crystal x-ray diffraction. The overall conformation of the steroid nucleus i

RX(5) OF 6 3 W ===> 0 + P + Q

L11 ANSWER 10 OF 14 CASREACT COPYRIGHT 2003 ACS

L11 ANSWER 11 OF 14 CASREACT COPYRIGHT 2003 ACS

ACCESSION NUMBER: 112:77709 CASREACT
TITLE: 5.beta..6.beta.-Epoxidation of 3.beta.-cholesteryl acetate and its analogs
AUTHOR(S): Galagovsky, L. R.; Burton, G.; Gros, E. G.
Fac. Cien. Exactas Nat., Univ. Buenos Aires, Buenos Aires, 1429, Argent.

SOURCE: Zeitschrift fuer Naturforschung, B: Chemical Sciences (1989), 44(7), 806-10
CODEN: ZNBSEN; ISSN: 0932-0776

DOCUMENT TYPE: Journal
LANGUAGE: Agish
AB The treatment of acetylated .DELTA.5-steroids with chromyl diacetate at low teeps afforded the 5.beta.,6.beta.-epoxy derivs. with stereoselectivity greater than 90 per cent. Thus, the epoxidn. of cholesterol acetate (I) gave 5.beta.,6.beta.-epoxide II as the major product.

RX (4) OF 5 3 U ---> V + W + X

L11 ANSWER 11 OF 14 CASREACT COPYRIGHT 2003 ACS

U 1778-02-5 E 1333-82-0 Cr03, F 108-24-7 Ac20 V 6661-94-5, W 6748-09-0, X 2723-04-8 75-09-2 CH2C12 RX (4)

L11 ANSWER 12 OF 14 CASREACT COPYRIGHT 2003 ACS

ACCESSION NUMBER:

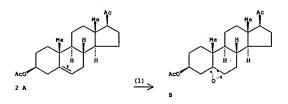
109:190646 CASREACT
Mercuric oxide - iodine oxidation of
6.beta.-hydroxypregnanes. Influence of the C-5
functionality

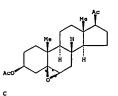
AUTHOR(S):
Brachet-Cota, Adriana L.; Burton, Gerardo
Fac. Cienc. Exactsa Natur., Univ. Buenos Aires, Buenos
Aires, 1428, Argent.

2citschrift fuer Naturforschung, B: Chemical Sciences
(1988), 43(4), 491-5
CODEN: ZNBSEN; ISSN: 0932-0776

DOUMENT TYPE:
LANGUAGE:
AB Oxidn. of 6.beta.-hydroxyprogesterone and 3.beta.-acetoxy-5.alpha., 6.beta.dihydroxypregnan-20-one with mercuric oxide-iodine under photolytic
conditions gave 4.alpha.-iodod-5.beta.-oxidopregnan-3,20-dione (I)
and 3.beta.-acetoxy-7-iodo-19-formyloxy-5,7-seco-6-norpregnan-5,20-dione
(II), resp.

2 A ===> B + C...





RCT A 1778-02-5 RGT D 937-14-4 MCPBA, E 497-19-8 Na2CO3 PRO R 1418-09-5, C 6661-94-5 SOL 7732-18-5 Water, 75-09-2 CH2C12 RX (1)

L11 ANSWER 14 OF 14 CASREACT COPYRIGHT 2003 ACS (Continued)

RCT A 2786-02-9, B 145-13-1

STAGE(2) RGT D 104-15-4 TsOH PRO C 98087-14-0

RCT C 98087-14-0

L11 ANSWER 14 OF 14 CASREACT COPYRIGHT 2003 ACS (Continued) STAGE(1)

RET G 1333-74-0 H2
CAT 7440-05-3 Pd

STAGE(2)

RCT E 108-24-7

SOL 110-86-1 Pyridine
PRO F 98087-15-1

RX (3)

RCT F 98087-15-1 RGT G 1333-74-0 H2 PRO J 98087-16-2, K 98087-17-3 CAT 7440-16-6 Rh

RX (4)

RCT J 98087-16-2 RGT O 20427-56-9 RuO4 PRO M 95042-55-0, N 98087-19-5

09/091,627 Page 13

=> d ibib ab hitstr 1-8

L19 ANSVER 1 OF 8
ACCESSION NUMBER:
DOCUMENT NUMBER:
111LE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:

DOCUMENT TYPE:
LANGUAGE:
LANGUAGE:
DOCUMENT TYPE:
DOCUMENT TYPE:
LANGUAGE:
DOCUMENT TYPE:
LANGUAGE:
DOCUMENT TYPE:

US 2003018188 A1 20030123 US 2002-91627 20020306

PRIORITY APPLM. INFO: US 2000-183396P P 20000218

OTHER SOURCE(S): MARPAT 138:122759

AB The present invention discloses a general, efficient, and environmentally friendly method for epoxidn. of .DelthA. S-unsatd. steroids, such as I [X = H, OH, alkyloxy, acyloxy, silyloxy, CN, carboxy, R1 = H, OH, alkyloxy, acyloxy, silyloxy, CN, carboxy, R1 = H, OH, alkyloxy, acyloxy, silyloxy, R1R2 = O, ketal, R4, R5 = H, alkyl, aryl, halo, OH, alkyloxy, silyloxy, R8, R7 = H, alkyl, halo, OH, alkyloxy, acyloxy, silyloxy, R6, R7 = H, alkyl, halo, OH, alkyloxy, acyloxy, silyloxy, R6, R7 = H, alkyl, halo, OH, alkyloxy, acyloxy, silyloxy, R7 = H, alkyl, aryl, OH, alkyloxy, acyloxy, silyloxy, silyloxy,

 $\overset{\circ}{\sim}$ 

1250-95-9P 2953-38-0P 4025-59-6P 6215-57-2P 6557-20-6P 6585-70-2P 10338-34-6P 14456-17-6P 14733-13-2P 2416-45-6P 29752-14-5P 31081-65-3P 70214-36-7P 71379-18-5P 117884-67-0P

L19 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)

6215-57-2 CAPLUS Cholestan-3-one, 5,6-epoxy-, cyclic 1,2-ethanediyl acetal, (5.beta.,6.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

6557-20-6 CAPLUS Androstan-17-one, 5,6-epoxy-3-hydroxy-, (3.beta.,5.beta.,6.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

6585-70-2 CAPLUS Pregnan-20-one, 5,6-epoxy-3-hydroxy-, [3.beta.,5.beta.,6.beta.]- [9CI] (CA INDEX NAME)

Absolute stereochemistry.

ANSVER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)
119528-36-9P 123153-12-6P 312490-18-9P
312490-19-0P 312490-20-3P 468721-74-0P
488721-75-1P
RL: IMF (Industrial manufacture), SPN (Synthetic preparation), PREP
(Preparation)
(prepn. of 5.beta., 6.beta.-epoxides of steroids by .beta.-selective
epoxidn. of .DELTA.5-unsatd. steroids catalyzed by ketones)
1250-95-9 CAPLUS
Cholestan-3-ol, 5,6-epoxy-, (3.beta.,5.alpha.,6.alpha.)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.

2953-38-0 CAPLUS Cholestan-3-ol, 5,6-epoxy-, (3.alpha.,5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

4025-59-6 CAPLUS Cholestan-3-ol, 5,6-ероху-, (3.beta.,5.beta.,6.beta.)- (9СІ) (СА INDEX NAME)

Absolute stereochemistry.

L19 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS

10338-34-8 CAPLUS Androstan-17-one, 5,6-epoxy-3-hydroxy-, (3.beta.,5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry

14456-17-8 CAPLUS Cholestan-3-ol, 5,6-epoxy-, acetate, (3.alpha.,5.beta.,6.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

14733-13-2 CAPLUS Pregnane-3,20-dione, 5,6-epoxy-, cyclic bis(1,2-ethanediyl acetal), (5.beta.,6.beta.)- (9CI) (CA INDEX NAME)

L19 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)

24116-45-8 CAPLUS Cholestan-3-ol, 5,6-epoxy-, (3.alpha.,5.beta.,6.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

29752-14-5 CAPLUS Androstane-3,17-diol, 5,6-ероху-, (3.beta.,5.alpha.,6.alpha.,17.beta.)-(9C1) (СА INDEX NAME)

Absolute stereochemistry.

31081-85-3 CAPLUS

L19 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)

117884-67-0 CAPLUS
Pregnane-3,20-dione, 5,6-epoxy-11-hydroxy-, cyclic bis(1,2-ethanediyl acetal), (5.beta.,6.beta.,11.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

119525-36-9 CAPLUS Pregname-3,20-dione, 5,6-epoxy-, cyclic 3-(1,2-ethanediyl acetal), (5.alpha.)- (9CI) (CA INDEX NAME)

123153-12-0 CAPLUS
Pregnane-3,20-dione, 11-(acetyloxy)-5,6-epoxy-, cyclic
3,20-bis(1,2-ethanediyl acetal), (5.beta.,6.beta.,11.alpha.)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

L19 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)
CN Androstane-3,17-dione, 5,6-epoxy-, cyclic bis(1,2-ethanediyl acetal),
(5.beta.,6.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

70214-36-7 CAPLUS Androstan-3-ons, 5,6-epoxy-17-hydroxy-, cyclic 1,2-ethanediyl acetal, (5.beta.,6.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

71379-18-5 CAPLUS Androstan-3-one, 17-(acetyloxy)-5,6-epoxy-, cyclic 3-(1,2-ethanediyl acetal), (5.beta.,6.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L19 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)

312490-18-9 CAPLUS Androstan-17-one, 5,6-epoxy-3-methoxy-16,16-dimethyl-, (3.beta.,5.beta.,6.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

312490-19-0 CAPLUS Androstane-3,17-diol, 5,6-epoxy-, (3.beta.,5.beta.,6.beta.,17.beta.)-(9CI) (CA INDEX NAME)

312490-20-3 CAPLUS
Pregnan-20-one, 5,6-epoxy-3-(methoxymethoxy)-, (3.beta.,5.beta.,6.beta.)(9C1) (CA INDEX NAME)

=> d ibib ab hitstr 1-38

L28 ANSWER 1 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:399246 CAPLUS
TITLE: Hethod of epoxidation reaction of olefins
TINNENTOR(S): FATENT ASSIGNEE(S): Shanghai Inst. of Organic Chemistry, Chinese Academy of Sciences, Peop. Rep. Chine
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 12 pp.
CODEN: CNXXEV
PATENT LANGIAGE: Patent

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION: PATENT NO.

. KIND DATE APPLICATION NO. DATE

Absolute stereochemistry. Double bond geometry as shown.

270251-88-2P 270251-89-3P 270251-90-6P 270251-95-1P 270568-08-6P 270568-09-7P RL: SPN (Synthetic preparation); PREP (Preparation) (epoxidn. reaction of olefins)

L28 ANSWER.1 OF 38 CAPLUS COPYRIGHT 2003 ACS NAME) (Continued)

Absolute stereochemistry.

Pregnan-3-ol, 5,6:17,20-diepoxy-, (3.alpha.,17.xi.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

270568-09-7 CAPLUS Pregnane-3,20-dione, 5,6:16,17-diepoxy-, (17.xi.)- (9CI) (CA INDEX NAME)

ANSWER 1 OF 38 CAPLUS COPYRIGHT 2003 ACS 270251-88-2 CAPLUS (Continued)

Androstan-17-one, 5,6-epoxy-3-hydroxy-, (3.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

270251-89-3 CAPLUS Pregn-16-ene-3,20-dione, 5,6-epoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

270251-90-6 CAPLUS Pregnan-20-one, 5,6-epoxy-3-hydroxy-, (3.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

270251-95-1 CAPLUS Androstan-17-one, 3-(acetyloxy)-5,6-epoxy-, (3.alpha.)- (9CI) (CA INDEX

L28 ANSWER 2 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:765906 CAPLUS
132:59305
TITLE: Studies of the time-dependent inactivation of aromatase by 4.beta.,5.beta.-epoxy-6-one and 5.beta.,6.beta.-epoxy-4-one and conditions
AUTHOR(S):
CORPORATE SOURCE: Tohoku Pharmaceutical University, Sendai, 981-8558, Japan

Japan Biological & Pharmaceutical Bulletin (1999), 22(11), 1207-1211 SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

RCE: Biological & Pharmaceutical Bulletin (1999), 22(11), 1207-1211 CODEN: BPBLEO, ISSN: 0918-6158
LISHER: Pharmaceutical Society of Japan Journal GUAGE: English
The time-dependent inactivation of aromatase by epoxy analogs of the good aromatase inhibitors, androst-4-ene-6,17-dione (3) and androst-5-ene-4,17-dione (7), 4.beta.,5.beta.-epoxy and 19. do and 19. d

244181-97-3
RL: RCT (Reactant), RACT (Reactant or reagent)
(epoxidn. of)
244181-97-3 CAPLUS
Androst-5-en-19-al, 4,17-dioxo- (9CI) (CA INDEX NAME)

L28 ANSWER 2 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued) Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 3 OF 38 CAPLUS COPYRIGHT 2003 ACS

ΙT

249749-33-5P 249749-36-8P 249749-41-5P
RL: SPN (Synthetic preparation), PREP (Preparation)
 (transannular effect of one androstane epoxide on the stereochem. of a second epoxide.)
249749-33-5 CAPLUS
ANdrostan-17-one, 2,3:5,6-diepoxy-, (2.alpha.,3.alpha.,5.alpha.,6.alpha.)(9CI) (CA INDEX NAME)

249749-36-8 CAPLUS Androstan-17-one, 2,3:5,6-diepoxy-, (2.alpha.,3.alpha.,5.beta.,6.beta.)-(9CI) (CA INDEX NAME)

249749-41-5 CAPLUS Androstan-17-one, 5,6-epoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 3 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER:
DOCUMENT NUMBER:
1399:563220 CAPLUS
THE LETANSANULAR Effect of one androstane epoxide on the stereochemistry of a second epoxidation
AUTHOR(S):
Hanson, James R., Hitchcock, Peter B., Kiran, Ismail
SCH, of Chem., Physics and Environmental Science, The
University of Sussex, Brighton, BN1 90J, UK
JOURNAI of Chemistry
DOCUMENT TYPE:
DOCUMENT TYPE:
DOCUMENT TYPE:
LANGUAGE:
Boylish
Boyl Society of Chemistry
Journal
LANGUAGE:
Boylish
Boylisha.- epoxide on the epoxidn. of a 5-ene
and a 2-ene, resp., is shown to increase the proportion of epoxidn. of the
anti face of the alkene when compared to the unsubstituted 2- and
5-androstenes.
IT 249749-39-1P
RL: PRP (Properties); SPN (Synthetic preparation); PREP
(Preparation)
(crystal structure; transannular effect of one androstane spoxide on
the stereochem. of a second epoxidn.)
RN 249749-39-1 CAPLUS
CN Androstan-17-one, 2,3:5,6-diepoxy-, (2.beta.,3.beta.,5.alpha.,6.alpha.)(SCI) (CA INDEX NAME)

Absolute stereochemistry.

ΙT

249749-38-0
RL: BGT (Beactant): FACT (Reactant of resyent)
(transamular effect of one androstane epoxide on the stereochem. of a second epoxide.)
249749-38-0 CAPLUS
Androst-5-en-17-one, 2,3-epoxy-, (2.beta.,3.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 3 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

REFERENCE COUNT:

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 4 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 215094-36-3 CAPLUS
CN Cholest-5-en-7-one, 3-(acetyloxy)-25,26,26,26,27,27,27-heptafluoro-,
(3.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 240129-11-7 CAPLUS
CN Cholest-5-en-16-d-16-ol, 3,26-bis[{(1,1-dimethylethyl)dimethylsilyl]oxy}-,
(3.beta.,16.beta.,25R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 240129-13-9 CAPLUS
CN Cholest-5-en-16-d-16-ol, 3,26-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-,
methanesulfonate, (3,beta.,16,alpha.,25R)- (9CI) (CA INDEX NAME)

L28 ANSWER 4 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 240129-20-8 CAPLUS CN Cholestan-26,26,26,27,27,27-d6-3-o1, 5,6-epoxy-, acetate, (3.beta.,5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 240129-22-0 CAPLUS
CN Cholestan-3-ol, 5,6-epoxy-25,26,26,27,27,27-heptafluoro-, acetate, (3.beta.,5.beta.,6.beta.) - (9CI) (CA INDEX NAME)

Absolute stereochemistry

RN 240129-23-1 CAPLUS
CN Cholestan-26,26,26,27,27,27-d6-3-o1, 5,6-epoxy-, acetate, (3.beta.,5.beta.,6.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 4 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)
Absolute stereochemistry.

RN 240129-14-0 CAPLUS
CN Silane, {(3.beta.,25R)-cholest-5-ene-3,26-diyl-16,16-d2-bis(oxy)}bis{(1,1-dimethylethyl)dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 240129-19-5 CAPLUS
CN Cholestan-3-o1, 5,6-epoxy-25,26,26,27,27,27-heptafluoro-, acetate, (3.beta.,5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

Abaqlute stereochemistry.

L28 ANSWER 4 OF 38 CAPLUS COPYRIGHT 2003 ACS · (Continued)

RN 240129-27-5 CAPLUS CN Cholest-5-ene-16,16-d2-3,26-diol, diacetate, (3.beta.,25R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry

RN 240129-28-6 CAPLUS
CN Cholest-5-ene-16,16-d2-3,26-diol, (3.beta.,25R)- (9CI) (CA INDEX NAME)
Absolute stereochemistry.

RN 240129-29-7 CAPLUS CN Cholest-5-en-7-one-16,16-d2, 3,26-bis(acetyloxy)-, (3.beta.,25R)- (9CI) (CA INDEX NAME)

L28 ANSWER 4 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

240129-32-2 CAPLUS Cholest-5-ene-3,7-diol, 25,26,26,26,27,27,27-heptafluoro-, diacetate, (3.beta.,7.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

240129-33-3 CAPLUS Cholest-5-ene-26,26,26,27,27,27-d6-3,7-diol, diacetate, (3.beta.,7.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

240129-34-4 CAPLUS Cholest-5-ene-3,7,26-triol, triacetate, (3.beta.,7.alpha.,25R)- (9CI) (CA INDEX NAME)

L28 ANSWER 4 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

Absolute stereochemistry.

240129-38-8 CAPLUS Cholast-5-ene-3,7,26-triol, triacetate, (3.beta.,7.beta.,25R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

240129-39-9 CAPLUS Cholest-5-ene-16,16-d2-3,7,26-triol, triacetate, (3.beta.,7.beta.,25R)-(9CI) (CA INDEX NAME)

240129-54-8 CAPLUS Cholest-5-ene-3,19-diol, 25,26,26,27,27,27-heptafluoro-, 3-acetate, (3.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 4 OF 39 CAPLUS COPYRIGHT 2003 ACS (Continued) Absolute stereochemistry.

240129-35-5 CAPLUS Cholest-5-ene-16,16-d2-3,7,26-triol, triacetate, (3.beta.,7.alpha.,25R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

240129-36-6 CAPLUS Cholest-5-ene-3,7-diol, 25,26,26,26,27,27,27-heptafluoro-, diacetate, (3.beta.)-7.beta.)- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

240129-37-7 CAPLUS Cholest-5-ene-26,26,26,27,27,27-d6-3,7-diol, diacetate, (3.beta.,7.beta.)-(9C1) (CA INDEX NAME)

L28 ANSWER 4 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

240129-55-9 CAPLUS Cholest-5-ene-26,26,26,27,27,27-d6-3,19-diol, 3-acetate, (3.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

1230-93-39 4025-59-69
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and characterization of fluorinated and deuterated analogs of oxygenated derivs. of cholesterol)
1250-95-9 CAPLUS
Cholestan-3-ol, 5,6-epoxy-, (3.beta.,5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

4025-59-6 CAPLUS Cholestan-3-ol, 5,6-epoxy-, (3.beta.,5.beta.,6.beta.)- [9CI] (CA INDEX NAME)

L28 ANSWER 4 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued) Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 5 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

164298-05-9P 220066-72-8P 220150-72-1P IT

RELECT (Reactant) 7 PR (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (storecontrolled syntheses of 24(5), 25-epoxycholesterol and related oxysterols for studies on activation of LXR receptors) 164298-03-9 CAPLUS

Chola-5,22-dien-24-oic acid, 3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-, methyl ester, (3.beta.,22E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

220066-72-8 CAPLUS Cholest-5-ene-3,24-diol, 25-azido-, 3-acetate, (3.beta.,24R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 5 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:809482 CAPLUS
DOCUMENT NUMBER: 130:139506
TITLE: Stereocontrolled syntheses of 24(5), 25epoxycholesterol and related oxysterols for studies on
the activation of LXR receptors

AUTHOR(S): Core, E. J., Grogan, Michael J.
Department of Chemistry and Chemical Biology, Harvard
University, Cambridge, MA, 02138, USA
Tetrahedron Letters (1998), 39(51), 9351-9354
CODEN: TELEAY, ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
CTHER SOURCE(S): CASREACT 130:139506
AB Efficient syntheses are described of desmosterol, the corresponding
24(5), 25 epoxide and various analogs for evaluation as ligands and
functional activators of LXR receptors.

T 220056-66-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); RCT (Reactant), SPN (Synthetic
preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant
or reagent)
(stereocontrolled syntheses of 24(5),25-epoxycholesterol and related
oxysterols for studies on activation of LXR receptors)

RN 220066-66-0 CAPIUS
CN Cholest-5-en-7-one, 24,25-epoxy-3-hydroxy-, (3.beta.,245)- (9CI) (CA

IT

220066-69-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PERE (Preparation)
(stereocontrolled syntheses of 24(S),25-epoxycholesterol and related oxysterols for studies on activation of LKR receptors)
220066-69-3 CAPIUS
Cholestan-3-ol, 5,6:24,25-diepoxy-, (3.beta.,5.alpha.,6.alpha.,24S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 5 OF 38 CAPLUS COPYRIGHT 2003 ACS

220150-72-1 CAPLUS Silane, [(3.beta.)-cholesta-5,24-dien-3-yloxy](1,1-dimethylethyl)dimethyl-(SCI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

128 ANSWER 6 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:737266 CAPLUS
DOCUMENT NUMBER: 1399:737266 CAPLUS
130:95713
18-Vinyldeaxycorticosterone: a potent inhibitor of the bovine eyctochrome P-45011.beta.

AUTHOR(S): Davioud, Elisabeth, Piffeteau, Annie, Delorme, Cecile, Coustal, Suzy, Marquet, Andree
Laboratoire de Chimie Organique Biologique, Universite Pierre et Marie Curie, CNRS UMR 7613, Paris, 75252, Fr.

SOURCE: Bioorganic & Medicinal Chemistry (1998), 6(10), 1781-1788
COUEN: BMCEEF, ISSN: 0968-0896

PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB 18-Vinylprogesterone (18-VP) and 18-ethynylprogesterone (18-EP) have proved to be potent suicide inhibitors of P 45011.beta., the last enzyme of aldosterone biosynthesis (Delorme, C., Piffeteau, A., Sobrio, F., Marquet, A. Eur. J. Biochem. 1995, 232, 247, Delorme, C., Piffeteau, A., Sobrio, F., Marquet, A. Eur. J. Biochem. 1997, 248, 252). This paper describes the synthesis of 18-vinyldeaxycorticosterone (18-VDC), an analog of deoxycorticosterone (DCC), the physiol. substrate of the enzyme, and the evaluation of its reversible inhibiting properties for deoxycorticosterone and corticosterone and the Solia bindiving properties for deoxycorticosterone and corticosterone avidan. by the bovine enzyme. 18-VDOC has been obtained by hydroxylation at C-21 of a 18-VP precursor. Its reversible Ki values are, resp., 0.3. mu.M for the 11.beta.-hydroxylation and 0.8. mu.M for the 18-Vp rid one not inhibit more efficiently the 18-hydroxylation than the 11-hydroxylation. Hence, 18-VDOC is the strongest competitive inhibitor of bovine P 45011.beta. 219120-06-6P 219120-07-7P 219120-01-08-P

219120-06-6P 219120-07-7P 219120-01-08-P

219120-06-6P 219120-07-7P 219120-01-08-P

219120-06-6P 219120-07-7P 219120-01-08-P

219120-06-6P CAPLUS

Na 18-Norpregn-5-en-20-one, 3-hydroxy-13-(2-propenyl)-, (3.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

219120-07-7 CAPLUS

L28 ANSWER 6 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

219120-10-2 CAPLUS

18-Norpregn-5-en-20-one, 21-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-3-hydroxy-13-(2-propenyl)-, (3.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

219120-12-4 CAPLUS 2-Propen-1-one, 3-hydroxy-1-[(3.beta.,17.beta.)-3-hydroxy-13-(2-propenyl)-18-norandrost-5-en-17-yl]-, (22)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

219120-14-6 CAPLUS Silane, trimethyl[[(3.beta.)-13-(2-propenyl)-3-[(tetrahydro-2H-pyran-2-yl)oxy]-18-norpregna-5,20-dien-20-yl]oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 6 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued) 18-Norpregn-5-en-20-ene, 13-(2-propenyl)-3-[(tetrahydro-2H-pyran-2-yl)oxy]-, (3.beta.)- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

219120-08-8 CAPLUS
18-Norpregn-5-en-20-one, 21-hydroxy-13-(2-propenyl)-3-[(tetrahydro-2H-pyran-2-yl)oxy]-, (3.beta-)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

219120-09-9 CAPLUS 18-Norpregn-5-en-20-one, 21-[{(1,1-dimethylethyl)diphenylmilyl]oxy]-13-(2-propenyl)-3-[(tetrahydro-2H-pyran-2-yl)oxy]-, (3.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 6 OF 38 CAPLUS COPYRIGHT 2003 ACS

219143-68-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis and biol. activity of 18-vinyldeoxycorticosterone as a potent inhibitor of the bovine cytochrome P 45011.beta.)
219143-68-7 CAPLUS
18-Norprepana-20-one, 5,6-epoxy-13-(2-propeny1)-3-[(tetrahydro-2H-pyran-2-y1)oxy]-, (3.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 29

Absolute stereochemistry

218141-01-6 CAPLUS Androstan-17-one, 5,6-epoxy-3-hydroxy-, (3.beta.,5.alpha.,6.alpha.,13.alpha.)- (921) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 8 OF 38 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1998:725631 CAPLUS DOCUMENT NUMBER: 130:81693 TITLE: Synthesis and photochet

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER:

DOCUMENT TYPE:

OTHER SOURCE(S):

ANSWER OF JS CAPIUS COPTRIGHT 2003 ACS SSION NUMBER: 1998:725631 CAPIUS SSION NUMBER: 130:81693

ACE: 1998:725631 CAPIUS (Proposition of 19-phenylsulfonyl provitamin D analog (Proposition of 20-093, Pol.)

Academy of Capital (Proposition of Capital Openitary, University of Warsaw, Warsaw, O2-093, Pol.)

ACE: Collection of Capital Chemistry, University of Warsaw, Warsaw, O2-093, Pol. (1998), 63(10), 1597-1612

CODEN: CCCCAK; ISSN: 0010-0765

Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic Journal NAGE: English

RESOURCE(S): CASREACT 130:81693

The synthesis of provitamin D analog 19-(phenylsulfonyl) androsta-5, 7-diene-3.beta., 17. beta. -diyl 3-acetate 17-pivalate (II). II was first obtained in low yield in the nucleophilic displacement reactions of 19-halogenated-5-ene steroids with sodium benzensulfinate. Then a more efficient method has been used, which involves protection of the double bond as an epoxide. Introduction of the C(7)-C(8) double bond into olefin II has also been achieved in two ways. The first involved bromination-dehydrobromination and the Damford-Stevens reaction of its toxylhydrazone. Uvirradn. of 5,7-diene I resulted in formation of a complex mixt. of products. The structures of five isolated compds. were established on the basis of their IH MMR spectra and mechanistic rationale. established on the basis of their 1H MMR spectra and mechanistic rationale.
219900-37-9P 218900-57-3P 218900-58-4P 218900-60-8P 218900-62-0P 218900-63-1P RE. RCT (Reactant) 5PN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (synthesis and photochem. transformations of 19-phenylsulfonyl provitamin D analog) 218900-37-9 CAPLUS Androst-5-ene-3,17-diol, 19-bromo-, 3-acetate 17-(2,2-dimethylpropanoate), (3.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

218900-57-3 CAPLUS Androstane-3,17-diol, 19-bromo-5,6-epomy-, 3-scotate 17-(2,2-dimethylpropanoate), (3.beta.,5.alpha.,6.alpha.,17.beta.)- (9C1) (CA

L28 ANSWER 7 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

REFERENCE COUNT:

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 8 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued) INDEX NAME)

Absolute stereochemistry. Rotation (-).

218900-58-4 CAPLUS Androstane-3,17-diol, 5,6-epoxy-19-(phenylsulfonyl)-, 3-acetate
17-(2,2-dinethylpropanoate), (3.beta.,5.alpha.,6.alpha.,17.beta.)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

218900-60-8 CAPLUS Androst-5-ene-3, 17-diol, 6-bromo-19-(phenylsulfonyl)-, 3-acetate 17-(2,2-diesthylpropanoate), (3.beta.,17.beta.)- (9CI) (CA INDEX NAME)

L28 ANSWER 8 OF 38 CAPLUS COPYRIGHT 2003 ACS

218900-62-0 CAPLUS
Androst-5-en-7-one, 3-(acetyloxy)-17-(2,2-dimethyl-1-oxopropoxy)-19-(phenylsulfonyl)-, (3.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

218900-63-1 CAPLUS
Propanoic acid, 2,2-dimethyl-, (3.beta.,17.beta.)-3-(acetyloxy)-7-{{(4-methyl-penyl)sulfonyl)sydroxyl-pydrazono}-19-(phenylsulfonyl)androst-5-en-17-ylester (9CI) (CA INDEX NAME)

bsolute stereochemistry. ouble bond geometry unknown.

L28 ANSWER 9 OF 38 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1998:663745 CAPLUS DOCUMENT NUMBER: 130:25222 TITLE: Ergosteroid III. Synth

130:25222 Ergosteroids III. Syntheses and biological activity of seco-steroids related to dehydrospiandrosterone Reich, leva L., Lardy, Henry, Wei, Yongy Harwah, Padma; Kneer, Nancy; Powell, Douglas R.; Reich, Hans AUTHOR (S):

CORPORATE SOURCE:

SOURCE:

PUBLI SHER:

DOCUMENT TYPE: LANGUAGE: AB The unusua

165181-86-2P
RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study), PREP (Preparation); RACT (Reactant or reagent)
(synthesis of secosteroids related to dehydroepiandrosterone as inducers of thermogenic enzymes)
165181-86-2 CAPLUS
ANDROST-5-ene-7,16,17-trione, 3-(acetyloxy)-, (3.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

216485-15-3

RL: RCT (Reactant); RACT (Reactant or reagent) (synthesis of secosteroids related to dehydroepiandrosterone as inducers of thermogenic enzymes)

L28 ANSWER 8 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

IT

218900-59-59
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis and photochem. transformations of 19-phenylsulfonyl
provitamin D analog)
218900-59-5 CAPLUS
Androstane-3,17-diol, 19-bromo-5,6-epoxy-, 3-acetate 17-(2,2dimethylpropanoate), (3.beta.,5.beta.,6.beta.,17.beta.)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry. Rotation (-).

REFERENCE COUNT:

THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 24

ANSWER 9 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued) 216485-15-3 CAPLUS Androst-5-ene-7,17-dione, 3-(1-oxopropoxy)-16-(phenylseleno)-, (3.beta.,16.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

216484-81-0F 216484-82-1F 216484-83-2F
RL: RCT (Reactant): SPN (Synthetic preparation): PREP
(Preparation): RACT (Reactant or reagent)
(synthesis of secosteroids related to dehydroepiandrosterone as
inducers of thermogenic enzymes)
216484-81-0 CAPLUS
Androst-5-ene-7.17-dione, 16-(phenylseleno)-3[((trimethylsilyl)acetyl]oxy]-, (3.beta.,16.alpha.)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.

216484-82-1 CAPLUS Androst-5-ene-7,17-dione, 3-(acetyloxy)-16-(phenylseleno)-, (3.beta.,16.alpha.)- (9CI) (CA INDEX NAME)

ANSWER 9 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued) 216484-83-2 CAPLUS Androst-5-ene-7.17-dione, 3,16-bis(acetyloxy)-16-(phenylseleno)-, (3.beta.,16.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

64936-63-6P RL: SPN (Sy 64936-63-67
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of secosteroids related to dehydroepiandrosterone as inducers of thermogenic enzymes)
64936-63-6 CAPLUS
Androstan-7-one, 3,17-bis(acetyloxy)-5,6-epoxy-,
(3.beta.,5.alpha.,6.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 10 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

141602-55-3 CAPLUS Stigmastame-3,4-diol, 5,6-epoxy-, (3.beta.,4.beta.,5.alpha.,6.alpha.)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

204765-57-1 CAPLUS Ergost-5-ene-3,4-diol, (3.beta.,4.beta.,24R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 10 OF 38 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:185142 CAPLUS

DOCUMENT NUMBER: 128:230561

TITLE: Modified sterols. XIV. Synthesis of
3.beta., 4.beta., -dihydroxy-6-ketosterols from the
phytosterols .beta.-campesterol and .beta.-sitosterol

Irismetory, H. P., D. Dithembaev, B. Zh.; Verlinskaya, L.

V., Praliev, K. D.

CORPORATE SOURCE: Inst. Khim. Nauk im. Bekturova, Almaty, Kazakhstan

Irvestiya Ministerstva Nauki--Akademii Nauk Respubliki

Kazakhstan, Seriya Khimicheskaya (1997), (3), 50-54

COBEN: IMKKFL

Gylym

DOCUMENT TYPE: Journal

AB Allylic hydroxylation of the phytosterols .beta.-campesterol (I; R = Me)
and .beta.-sitosterol (I; R = Et) with selenium dioxide was studied.

3.beta.-4.beta.-0.hipkroxy-6-ketosterols of .beta.-campesterol and
.beta.-sitosterol vere synthesized.

I 141602-53-IP 141602-55-3P

204765-57-IP 204765-59-3P 204765-60-6F

RL: RCT (Reactant), SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(Preparation); RACT (Reactant or reagent)

Lotta.-campesterol and .beta.-sitosterols

No Stigmast-S-en-3, 4-diol, (3.beta., 4.beta.) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

141602-54-2 CAPLUS Stigmastane-3,4-diol, 5,6-epoxy-, (3.beta.,4.beta.,5.beta.,6.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 10 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

204765-59-3 CAPLUS Ergostane-3,4-diol, 5,6-epoxy-, (3.beta.,4.beta.,5.beta.,6.beta.,24R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

204765-60-6 CAPLUS Ergostane-3,4-diol, 5,6-epoxy-, (3.beta.,4.beta.,5.alpha.,6.alpha.,24R)-(9CI) (CA INDEX NAME)

141602-56-4P 204765-62-8P
RL: SPN (Synthetic preparation), PREP (Preparation)
(prepn. of 3.beta., 4.beta.-dihydroxy-6-ketosterols from
.beta.-campesterol and .beta.-sitosterol)
141602-56-4 CAPUS
Stigmastane-3, 4-dol, 5,6-epoxy-, 3-acetate, (3.beta.,4.beta.,5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

L28 ANSWER 10 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

204765-62-8 CAPLUS Ergostane-3,4-diol, 5,6-epoxy-, 3-acetate, (3.beta.,4.beta.,5.alpha.,6.alpha.,248) | 9C1) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 11 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

204330-89-2 CAPLUS Androstan-17-one, 19-(acetyloxy)-5,6-epoxy-, (5.beta.,6.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

6585-68-8P 117926-18-8P 131768-89-3P
204330-81-4P
RL: SPN (Synthetic preparation), PREP (Preparation)
(reaction of androst-5-en-17-one with hypobromous acid and use for synthesis of 19-oxygenated 5-ene and 4-en-6-one steroids)
6585-68-8 CAPLUS
Androstan-17-one, 3-(acetyloxy)-5,6-epoxy-, (3.beta.,5.beta.,6.beta.)(9CI) (CA INDEX NAME)

Absolute stereochemistry.

117926-18-8 CAPLUS Androstan-17-one, 5,6-epoxy-, (5.beta.,6.heta.)- (9CI) (CA INDEX NAME)

L28 ANSWER 11 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:129375 CAPLUS
DOCUMENT NUMBER: 1998:129375 CAPLUS
TITLE: Reaction of androst-5-en-17-one with hypobromous acid and its use for synthesis of 19-oxygenated 5-ene and 4-en-6-one steroids
AUTHOR(S): Numarawa, Mitsuterus Yamada, Keiko
TORORATE SOURCE: Tohoku College of Pharmacy, Sendai, 981, Japan
SOURCE: COORN: STEDAN; ISSN: 0039-128X
Elsevier Science Inc.
DOCUMENT TYPE: Journal
LANGUAGE: Lenglish
OTHER SOURCE(S): CASREACT 128:217536
AB Reaction of androst-5-en-17-one with hypobromous acid using a short reaction time (30 min) along with a careful isolation procedure gave, for the first time, the addn. product, 5, alpha.-bromo-6.beta.-hydroxyandrostan-17-one (11, in 43) yield. This bromohydrin was much more reactive than 5.alpha.-bromo-3.beta.-acetoxy-6.beta.-hydroxyandrostan-17-one (17)—and the composition of the difficulty in isolating this composition of the principal reason for the difficulty in isolating this composity the addn. reaction so far. 19-Hydroxyandrost-6-en-17-one and androst-5-en-17, 19-dione, as well as 19-hydroxyandrost-6-en-6, 17-19-dione and androst-6-ene-6, 17, 19-trione, were synthesized through hypoiodite reaction of the bromohydrin I as a key reaction.

IT 157022-95-2 P 204330-e2-5P 204330-e3-2P
RL: RCT (Reactant or reagent)
(Preaparation); RACT (Reactant or reagent)
(Preaparation); RACT (Reactant or reagent)
(Preaction of androst-5-en-17-one with hypobromous acid and use for synthesis, of 19-oxygenated 5-ene and 4-en-6-one steroids)

ADSOLUTE TO THE STORY AND THE STORY

Absolute stereochemistry.

204330-82-5 CAPLUS Androstan-17-one, 19-(acetyloxy)-5,6-epoxy-, (5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 11 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued) Absolute stereochemistry.

131768-89-3 CAPLUS Androstan-17-one, 5,6-epoxy-, (5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)-

204330-81-4 CAPLUS Androstan-17-one, 5,6-epoxy-19-hydroxy-, (5.beta.,6.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 12 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:120410 CAPLUS
COCUMENT NUMBER: 1298:120410 CAPLUS
TITLE: Cephalostatin support studies. 12. The first synthesis of the aglycon of the potent anti-tumor steroidal saponin OSV-1

AUTHOR(S): Guo, Chuangxing; Fuchs, P. L.
CORPORATE SOURCE: Dep. Chem., Purdue Univ., West Lafayette, IN, 47907, USA
SOURCE: Tetrahedron Letters (1998), 39(10), 1099-1102
CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The protected aglycon (1) of the potent antitumor agent OSV-1 was synthesized in 9 steps from 5-androsten-3.beta.-ol-17-one in 551 overall yield. Key reactions involve ene installation of the side chain, regio and atereoselective dihydroxylation and diastereoselective redn. of the C16 ketone.
I 203987-05-77 203987-14-8P 203987-16-0P 203987-19-3P 203987-35-1P 203987-35-3P 203987-33-1P 203987-35-3P 203987-33-1P 203987-35-3P 203987-36-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of aglycon of steroidal saponin OSV-1)
RN 203987-05-7 CAPLUS
CN Cholest-5-ene-3,22-diol, 16,17-epoxy-, (3.beta.,16.alpha.,225)- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

203987-14-8 CAPLUS Cholest-5-en-16-one, 3,17-dihydroxy-22-[(4-methoxyphenyl)methoxy]-, (3.beta.,225)- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 12 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

203987-25-1 CAPLUS

Pregn-5-en-20-one, 3,16-bis(acetyloxy)-17-[(methylthio)methoxy]-, (3.beta.,16.beta.)- (9CI) (CA INDEX NAME)

203987-30-8 CAPLUS Cholest-5-ene-3,16,17-triol, 22-{(4-methoxyphenyl)methoxy}-, (3.beta.,16.alpha.,22S}- (9CI) (CA INDEX NAME)

203987-33-1 CAPLUS
Cholest-5-en-22-one, 3.16.17-trihydromy-, cyclic 1,2-ethonediyl scatal, (3.beta.,16.alpha.)- (9CI) (CA INDEX NAME)

L28 ANSWER 12 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

203987-16-0 CAPLUS
Cholest-5-en-16-one, 3-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-17-hydroxy22-[(4-methoxyphenyl)methoxy]-, (3.beta.,225)- (9CI) (CA INDEX NAME)

203987-19-3 CAPLUS Cholest-5-en-22-one, 16-(acetyloxy)-3-[[(1,1-dimethylethyl)diphenylsilyl]o ky]-17-hydroxy-, cyclic 22-(1,2-ethanediyl acetal), (3.beta.,16.beta.)-(9CI) (CA INDEK NAME)

Absolute stereochemistry,

L28 ANSWER 12 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

203987-34-2 CAPLUS Cholest-5-ene-16,22-dione, 3,17-dihydroxy-, cyclic 22-(1,2-ethanediyl acetal), (3.beta.)- (9CI) (CA INDEX NAME)

203987-35-3 CAPLUS Cholest-5-ene-16,22-dione, 3-[([1,1-dimethylethyl]diphenylsilyl]oxy]-17-hydroxy-, cyclic 22-(1,2-ethanediyl acetal), (3.beta.)- (9CI) (CA INDEX NAME)

L28 ANSWER 12 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

203987-36-4 CAPLUS Cholest-5-en-22-one, 3-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-16,17-dihydroxy-, cyclic 1,2-ethanediyl acetal, (3.beta.,16.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

17

203987-28-4P
RL: SPN (Synthetic preparation): PREP (Preparation)
(synthesis of aglycon of steroidal saponin OSW-1)
203987-28-4 CAPUS
Cholestane-3,22-diol, 5,6:16,17-diepoxy-, (3.beta.,5.alpha.,6.alpha.,16.al
pha.,225)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

SOURCE:

L28 ANSWER 13 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:39823 CAPLUS
DOCUMENT NUMBER: 128:114551
A convenient acylation procedure for alcohols and amines

AUTHOR(S): CORPORATE SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

A convenient acylation procedure for alcohols and amines

MISS:

Misharin, A. Yu.; Chernov, B. K.

Institute Experimental Cardiology, Cardiological Research Center, Russian Academy Medical Sciences, Moscow, 121552, Russia

MCE:

Bioorganicheskaya Khimiya (1997), 23(8), 675-679 CODEN: BIKHO?; ISSN: 0132-3423

MENT TYPE:

MENT TYPE:

MISSIAN

The reaction of carboxylic acids with primary and secondary alcs. in the presence of mesitylenesulfonyl tetrazolide, or 2,4,6-triisopropylbenzenesulfonyl chloride, mesitylenesulfonyl tetrazolide and typical acylation catalysts was shown to be a convenient procedure for the synthesis of enters.

Reaction of carboxylic acids with primary aliph. or arom. amines in the presence of the same tetrazolides and catalysts was a useful procedure for the synthesis of amines in the presence of the same tetrazolides and catalysts was a useful procedure for the synthesis of amines in the presence of the same tetrazolides and catalysts was a useful procedure for the synthesis of amines in the presence of the same tetrazolides and catalysts was a useful procedure for the synthesis of amines in the presence of the same tetrazolides and catalysts was a useful procedure for the synthesis of amines in the presence of the same tetrazolides and catalysts was a useful procedure for the synthesis of amines in presence of arenesulfonyl chlorides or (arenesulfonyl)tetrazoles)

201731-16-0 CAPLUS

Cholest-5e-n7-one, 3-hydroxy-, (3.beta., 205)- (9CI) (CA INDEX NAME)

201412-85-3F 201731-21-7F
RL: SPN (Synthetic preparation), PREP (Preparation)
 (acylation of alcs. and amines in presence of arenesulfonyl chlorides of (arenesulfonyl) tetrazoles)
201412-85-3 CAPLUS
Cholestan-3-cl, 5,6-epoxy-, 9-octadecenoste, (3.beta.,5.slpha.,6.slpha.,8.xi.,9.xi.,14.xi.,17.xi.,20S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

L28 ANSWER 12 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

L28 ANSWER 13 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

201731-21-7 CAPLUS Cholestan-3-ol, 5,6-epoxy-, 9-octadecenoate-1-14C, (3.beta.,5.alpha.,6.alpha.,20S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L28 ANSWER 15 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued) Absolute stereochemistry.

191806-69-6 CAPLUS Androstane-4,7,17-trione, 5,6-epoxy-, (5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 16 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

ΙT 189103-23-9P 189103-26-2P 189103-31-9P 

Absolute stereochemistry.

189103-26-2 CAPLUS Cholastan-7-ol, 3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-5,6-epoxy-7-phenyl-, (3.beta.,5.beta.,6.beta.,7.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

189103-31-9 CAPLUS Cholest-5-en-7-ol, 3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-7-methyl-,

L28 ANSVER 16 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1997:266870 CAPLUS
TITLE: 126:293491
TITLE: 126:293491
TURUS CORPORATE SOURCE: 1997:266870 Dabrowski, Z., Trusevicz, M.,
Vilczewska, A. Z.
CORPORATE SOURCE: 1998: Monty M

Absolute stereochemistry.

149280-68-2 CAPLUS Cholest-5-ene-3,7-diol, 7-methyl-, (3.beta.,7.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 16 OF 38 CAPLUS COPYRIGHT 2003 ACS (3.beta.,7.beta.)- (9CI) (CA INDEX NAME)

189103-24-0P 189103-25-1P
RL: SPN (Synthetic preparation), PREP (Preparation)
(oxidn. of methyl and phenylcholestenediol)
189103-24-0 CAPLUS
Cholestane-3,7-diol, 5,6-epoxy-7-phenyl-, (3.beta.,5.beta.,6.beta.,7.beta.)
- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

189103-25-1 CAPLUS Cholastan-7-ol, 3-{{(1,1-dimethylethyl)dimethylsilyl]oxy}-5,6-epoxy-7-methyl-, (3.beta.,5.beta.,6.beta.,7.beta.)- (9C1) (CA INDEX NAME)

L28 ANSWER 16 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

(Continued) L28 ANSWER 17 OF 38 CAPLUS COPYRIGHT 2003 ACS

187344-49-6 CAPLUS Androstane-3,4,17-triol, 5,6-epoxy-, 3,17-diacetate, (3.beta.,4.beta.,5.beta.,6.beta.,17.beta.)- (9CI) (CA INDEX NAME)

L28 ANSWER 17 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1997:165734 CAPLUS
DOCUMENT NUMBER: 126:171767
TITLE: The synthesis of N-aryl androsterone pyrazoles as aromatase inhibitors
AUTHOR(S): Li, Shengron; Parish, Edward J.; Webbe, Thomas;
Brodie, Angela M. H.

CORPORATE SOURCE: Dep. Chem., Auburn Univ., Auburn, AL, 36849, USA
Bioorganic & Medicinal Chemistry Letters (1997), 7(4),
403-408

CODEN: BMCLE8; ISSN: 0960-894X

EDSCUMENT TYPE: Journal
LANGUAGE: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
AB N-aryl androsterone pyrazoles I and II (R - H, CH2CH:CHPh, CH2Ph,
CH2CGH4N02-4), showing a good inhibitory activity against aromatase, were
synthesized. I (R - H (ICSO - 236 MH); R - CH2Ph (ICSO - 342 MH) and II
[R - CH2Ph (ICSO - 245 MM)) were as active as 4-hydroxyandrost-4-ene-3,17dione (ICSO - 370 MH) as inhibitors of aromatase.

IT 187344-50-9P
RL: PRP (Properties), SPN (Synthetic preparation), PREP
(Preparation)
(prepn. of N-aryl androsterone pyrazoles as aromatase inhibitors)
RN 187344-50-9 CAPLUS
CN Androstane-3, 4,17-triol, 5,6-epoxy-, 3,17-diacetate,
(3.beta.,4.beta.,5.alpha.,5.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT

187344-48-5P 187344-49-6P
RL: RCT (Beactent): SPN (Synthatic preparation); FREP
(Preparation): RACT (Reactant or reagent)
(prepn. of N-aryl androsterone pyrazoles as aromatase inhibitors)
187344-48-5 CAPLUS
Androst-5-ene-3,4,17-triol, 3,17-diacetate, (3.beta.,4.beta.,17.beta.)(9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

155252-27-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SBN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of and hepatocyte cholesterol metab. regulation by hydroxychtoxy cholestanes and cholestenes)
155252-27-0 CAPLUS
Ethanol. 2-[([3.beta., 5.alpha., 6.alpha.)-5,6-epoxycholestan-3-yl]oxy](9CI) (CA INDEX NAME)

09/091,627 Page 37

L28 ANSWER 18 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

L28 ANSWER 19 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

L28 ANSWER 19 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1996:322182 CAPLUS
DOCUMENT NUMBER: 125:58844
A ruthenium-catalyzed oxidation of steroidal alkenes to enones
AUTHOR(S): Miller, Ross A., Li, Venjie; Humphrey, Guy R.
Dep. Process Res., Merck Res. Lab., Rahway, NJ, 07055-0900, USA
SOURCE: Tetrahedron Letters (1996), 37(20), 3429-3432 CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier
LANGUAGE: English
OTHER SOURCE(S): CASRRACT 125:58844
AB A new protocol for daveloped.
IT 55400-50-5P
RL: BYE (Byproduct); PREF (Preparation)

RE: BYP (Byproduct); PREF (Preparation)
(ruthenium-catalyzed oxidn. of steroidal alkenes to enones)
55400-50-5 CAPLUS
Cholestan-3-ol, 5,6-epoxy-, acetate, (3.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

173552-31-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(ruthenium-catalyzed oxidn. of steroidal alkenes to enones)
173552-31-3 CAPLUS
Androst-5-en-3-ol, 16-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-, acetate,
(3.beta.,16.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER:
DOCUMENT NUMBER:
115:33945
117LE:
Differential behavior of (25R)-5,6-epoxyspirostan22.alpha.-0-3.beta.-ol and (25R)-5,6-epoxyspirostan22.alpha.-0-3.beta.,4.beta.-diol toward Dowex
Xorde, Shilpa S., Baig, Mirza H. A., Desai, Umesh R.,
Trivedi, Girish K.
Dep. of Chemistry, Indian Inst. of Technology, Bombay,
400076, India
SURCE:
SURCE:
SUBLISHER:
DOCUMENT TYPE:
DOCUMENT TYPE:
Journal

SOURCE: Steroids (1996), 61(5), 290-295
CODEN: STEDAM; ISSN: 0039-128X

PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: Sequipment of the Steroids of the Steroids (1996)

AB The acid-catalyzed hydrolytic cleavage of the 5,6-epoxyspirostane derivs. by the cation exchange resin Dowex 50W X8 has been exploited with the goal of developing synthetic protocols toward 3,4,5,6-poxyspirostane analogs that can serve as intermediates to potential biol. active compds. Whereas the diastereomers (258)-5.alpha.o.alpha.epoxyspirostan-22.alpha.-0-3.beta.-01 and (258)-5.beta.,6.beta.-epoxyspirostan-22.alpha.-0-3.beta.-5.alpha.spirostan-2.alpha.spirostan-2.alpha.and. beta.-diastereomers of the 5,6-epoxyspirostan-2.alpha.-0-3.beta.,4.beta.-diol provide a single product, (258)-3.beta.,6.beta.-diolytoxy-5.alpha.spirostan-4-one, in good yields. The structures of these products have been confirmed using 1H NMR, 13C NMR, and IN-1H J correlated spectrosocopies. Multifunctional product formation suggests tremendous utility of Dowex in steroid synthesis. The product formation has been rationalized on the basis of differential conformational constraints of the A/B rings of the different epoxides in directing the reaction course. The reaction shows an interesting example of stereoelectronic effect of a single hydroxy group in discriminating solvent participation.

IT 17601-42-2 RL: NCT (Reactant or reagent) (differential behavior of (258)-5,6-epoxyspirostan-22.alpha.-0-3.beta.-dol and (258)-5,6-epoxyspirostan-22.alpha.-0-3.beta.-dol and (258)-5,6-epoxyspirostan-22.alpha.-0-3.beta.-dol Dovex)

Dowen)
177601-42-2 CAPLUS
Spirost-5-ene-3,4-diol, (3.beta.,4.beta.,2SR)- (9CI) (CA INDEX NAME)

L28 ANSYER 20 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

IT 3514-60-19 66879-97-8P 177601-43-3P

177601-43-5P

RL: RCT (Reactant), SPN (Synthetic preparation), PREP
(Preparation), RACT (Reactant or reagent)
(differential behavior of (2SR)-5,6-epoxyspirostan-22.alpha.-O-3.beta.ol and (25R)-5,6-epoxyspirostan-22.alpha.-O-3.beta.-diol toward
Dowex)

RN 3514-60-1 CAPLUS
Spirostan-3-ol, 5,6-epoxy-, (3.beta.,5.alpha.,6.alpha.,25R)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

66879-97-8 CAPLUS Spirostan-3-ol, 5,6-epoxy-, (3.beta.,5.beta.,6.beta.,25R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

177601-43-3 CAPLUS Épirostan 3,4-diol, 5,6-ерому-, (3.beta.,4.beta.,5.aipha.,6.aipha.,25R)-(9C1) (СА INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 21 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER:
1995:990826 CAPLUS
1171IE: 124:56407
Freparation of novel progesterone compound as antitumors, antidiabetics, antirheumatics, and angiostatics
Hibino, Satoshis Nugino, Elichi; Kohno, Tetsuya; Fujimori, Shihoi Nemoto, Hideo; Ichihara, Yoshitatsur Sato, Yoshio
Meiji Milk Products Co., Ltd., Japan
FOUNDENT TYPE: Patent LANGUAGE: PAYLUY ACC. NUM. COUNT: 1
Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE

### PATENT NO. KIND DATE APPLICATION NO. DATE

WO 9526974 Al 19951012 WO 1995-JF642 19950403

W: JP, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

EP 754701 Bl 19980812

R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE

ES 2119418 T3 19981001 ES 1995-913412 19950403

US 5693629 A 19971202 US 1996-716325 19961004

PRIORITY APPLN. INFO.: JP 1994-66246 19940404

OTHER SOURCE(S): MARPAT 124:56407

AB Title compds. I [R1 = C1-C23 hydrocarby]] are prepd. Thus, I [R1 = Me]

(11) was prepd. in many steps from 11.beta., 17.alpha.-dihydroxypregn-4-ene-3,20-dione via 11-o-acetylation, 20-acetalization, epoxidn. with m-chloroperbenzoic acid, methylation, hydrolysis, adehydration, in an in vitro study using the choricallantoic membrane from fertilized eggs, II at 100 .mu.g/egg showed 1001 inhibition of angiogenesis vs. 501 inhibition by the known medroxyprogesterone (also at 100 .mu.g/egg).

RIL RCT (Reactant), SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of novel progesterone compd. as antitumors, antidiabetics, antirheumatics, and angiostatics)

RN 11611-80-65 TAPIUS

CN Pregnane-3,20-dione, 11-{acetyloxy}-5,6-epoxy-, cyclic 3,20-bis(1,2-ethanediyl acetal), (11.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 20 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

177601-45-5 CAPLUS Spirostan-3,4-diol, 5,6-epoxy-, {3.beta.,4.beta.,5.beta.,6.beta.,25R}-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 21 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

171611-82-8 CAPLUS Pregn-5-ene-3,20-dione, 9-fluoro-17-hydroxy-6-methyl-, cyclic bis(1,2-ethanediyl acetal) (9CI) (CA INDEX NAME)

L28 ANSWER 22 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1995:836119 CAPLUS
DOCUMENT NUMBER: 123:340531
TITLE: 1995:836119 CAPLUS
DOCUMENT NUMBER: 123:340531
The synthesis and reactivity of 3.beta.-(2alkynylsulfonyl)- and 3.beta.-(2alkynylsulfonyl)- and 3.beta.-(2alkynylsulfonyl)- and 3.beta.-(2alkynylsulfonyl)- and 5.beta.-(2alkynylsulfonyl)- and 5.beta.-(2alkynylsulfonyl)- and 5.beta.-(2alkynylsulfonyl)- and 5.beta.-(2alkynylsulfonyl)- and 5.beta.-(2alkynylsulfonyl)- and 5.beta.-(4DOCUMENT TYPE: Dep. of Chemistry, Temple Univ., Philadelphia, PA, USA
SOURCE: Stepada, ISSN: 0039-128X
Elsevier
DOCUMENT TYPE: Journal
ANGUAGE: English
AB 3.beta.-(4AB 3.beta.-(4-

Absolute stereochemistry.

L28 ANSWER 22 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

170709-57-6 CAPLUS Androat-5-en-17-one, 3-[(acetylthio)methyl]-, cyclic 17-(1,2-ethanediyl acetal), (3.beta.)- (9CI) (CA INDEX NAME)

170709-58-7 CAPLUS Androst-5-en-17-one, 3-(mercaptomethyl)-, cyclic 1,2-ethanediyl acetal, (3.beta.)- (9CI) (CA INDEX NAME)

170709-62-3 CAPLUS Androst-5-en-17-one, 3-(bromomethyl)-, cyclic 1,2-ethanediyl acetal, (3.alpha.)- (9CI) (CA INDEX NAME)

L28 ANSWER 22 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)
RN 170709-54-3 CAPLUS
CN Androst-5-en-17-one, 3-{{2-hexadecynylthio}methyl}-, (3.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

170709-66-7 CAPLUS Androst-5-en-17-one, 3-(2-hexadecynylsulfonyl)-, (3.beta.)- (9CI) (CA INDEX NAME)

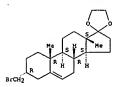
Absolute stereochemistry.

(CH<sub>2</sub>) 12-C = C

170709-55-4P 170709-57-6P 170709-58-7P
170709-62-3P 170709-67-8P 170709-69-0P
RL: RCT (Reactant): SPN (Synthetic preparation): PREF
(Preparation): RACT (Reactant or reagent)
(synthesis and reactivity of 3.beta.-(2-alkynylsulfonyl): and
3.beta.-(2-alkynylsulfonylmethyl)androst-5-en-17-ones as inhibitors of
glucuse-6-phosphate dehydrogenase)
170709-55-4 CAPUS
Androst-5-en-17-one, 3-methylene-, cyclic 1,2-ethanediyl acetal (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 22 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)



170709-67-8 CAPLUS Androst-5-en-17-one

Androst-5-en-17-one, 3-(hydroxymethyl)-, cyclic 1,2-ethanediyl acetal, (3.beta.)- (9CI) (CA INDEX NAME)

170709-69-0 CAPLUS Androst-5-en-17-one, 3-methyl-, cyclic 1,2-ethanediyl acetal, (3.alpha.)-(9CI) (CA INDEX NAME)

170709-61-2P
RL: SPN (Synthetic preparation), PREP (Preparation)
(synthesis and reactivity of 3.beta.-(2-alkynylsulfonyl)- and
3.beta.-(2-alkynylsulfonylmethyl) androst-5-en-17-ones as inhibitors of
glucose-6-phosphate dehydrogenase)
170709-61-2 CAPJUS
Androstan-17-one, 5,6-epoxy-3-{{2-hexadscynylsulfonyl}msthyl}-, {3.beta.}(9CI) (CA INDEX NAME)

L28 ANSWER 22 OF 38 CAPLUS COPYRIGHT 2003 ACS Absolute stereochemistry.

L28 ANSWER 23 OF 38 CAPLUS COPYRIGHT 2003 ACS

1693D6-06-3 CAPLUS Pregnane-3,11-diol, 5,6-epoxy-17,20:20,21-bis[methylenebis(oxy)]-, 3-acetata, (3.beta.,5.beta.,6.beta.,11.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ACCESSION NUMBER:
DOCUMENT NUMBER:
1995:821542 CAPLUS
DOCUMENT NUMBER:
1291:286377
TITLE:
Synthesis of 19-hydroxysteroids. III. Approaches to the synthesis of 19-hydroxycortisol from cortisol and cortisone

AUTHOR(S):
COMPORATE SOURCE:
SOURCE:
COMPORATE SOURCE:
Inst. Bioorg. Khim., Minsk, Belarus
Khimiys Prirodnykh Soedinenii (1993), (3), 374-84
CODEN: KPSUAR; ISSN: 0023-1150

PUBLISHER:
Fan
DOCUMENT TYPE:
Journal
AB 19-Hydroxycortisol (I) was obtained in multistep syntheses from cortisol and cortisone.
IT 169303-96-89
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation), RACT (Reactant or reagent)
(prepn. of hydroxycortisol from cortisol and cortisone)
RN 169305-96-80 APRUS
CN Pregn-5-ene-3,11-diol, 17,20:20,21-bis[methylenebis(oxy)]-, 11-acetate,
(3.beta.,11.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ΙT

169305-97-9P 169306-06-3P
RL: SPN (Synthetic preparation), PREP (Preparation)
(prepn. of hydroxycortisol from cortisol and cortisone)
169305-97-9 CAPLUS
Pregname-3, 11-diol, 5,6-epoxy-17,20:20,21-bis[mathylenebis(oxy)]-,
diacetate, (3.beta.,5.beta.,6.beta.,11.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 24 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1995:745335 CAPLUS
DOCUMENT NUMBER: 123:286372
TITLE: Competing pathway involved in allylic acetoxylation of androst-5-en-17-one and oxidation of allylic alcohols with chromain oxides
AUTHOR(S): Numarawa, Mitsuuterus Tachibana, Mii; Kamiza, Miyako
CORPORATE SOURCE: Steroids (1995), 60(8), 499-505
CODEN: STEDAM: ISSN: 0039-128X
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUMGE: Beglish
AB Allylic acetoxylation of androst-5-en-17-one with Br and Ag(OAc)2 gave
6.alpha.- and 6.beta.-acetoxyandrost-4-en-17-ones (I and II; 3 and 12%, resp.) and 5.alpha.-brome-6.beta.-acetoxyandrost-1-en-(III; 4%) along with 4.beta.-acetoxyandrost-6-en-17-ones (I intermediate of the acetoxylation reaction, with Ag(OAc)2 also produced I-IV in similar relative yields. I and II are produced through a competing pathway involving formation of a bridged carbonium ion followed by attack of Aco-Oxidn. of 4.beta.-hydroxyandrost-5-en-17-one with Jones reagent did not yield androst-5-en-4,17-dione (V) but instead gave a 1:6 mixt. of 5.beta.-epoxyandrostan-1-one and 4.beta.,5.beta.-epoxyandrostane-6-one in high yield. In contrast, a 1:4 mixt. of androst-6-en-6,17-dione and V was obtained upon treatment with CcO3 in pyridine. The oxidn. of 6.beta.-hydroxyandrost-1-ene gave similar results.

II 31768-95-19, Androstan-17-one, 5,6-epoxy-4-hydroxy-, (4.beta.-5.alpha,6.alpha). 169560-63-47
RL: RCT (Resectant): SPN (Synthetic preparation), PREP (Preparation), RACT (Reactant or reagent)

(CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry

169560-43-4 CAPLUS Androst-5-en-17-one, 4-hydroxy-, (4.beta.)- (9CI) (CA INDEX NAME)

L28 ANSWER 24 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

68376-64-7P, Androstane-4,17-dione, 5,6-epoxy-, (5.beta.,6.beta.)137926-18-8P, Androstan-17-one, 5,6-epoxy-, (5.beta.,6.beta.)13791-19-0P, Androstan-17-one, 4-(acetyloxy)-5,6-epoxy-,
[4.beta.,5.alpha.]RL SPN (Synthetic preparation) PREP (Preparation)
alca. with Croxides)
68376-64-7 CAPLUS
Androstane-4,17-dione, 5,6-epoxy-, (5.beta.,6.beta.)- (9CI) (CA INDEX NAME).

Absolute stereochemistry.

117926-18-8 CAPLUS Androstan-17-one, 5,6-epoxy-, (5.beta.,6.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 25 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER:
1995:732942 CAPLUS
COCUMENT NUMBER:
123:228621
Synthesis and photoisomerization of provitamin D
analog with 11.beta...19-oxide bridge
Sicinski, Rafal R.
CORPORATE SOURCE:
Dep. Chem., Univ. Warsaw, Warsaw, 02-093, Pol.
CORN: CJCTLAG; ISSN: 0008-4042
PUBLISHER:
National Research Council of Canada
Journal ALMOUAGE:
AB Triol disester I was converted into the B-ring 5,7-diene II representing
the first example of the provitamin D analog where the 10.beta. angular Me
group is connected to ring C by a CII/C19 ether linkage. UV light irradn.
The structure of the photoproduct was established by anal. of vicinal
H-1H coupling conta. and photoproduct was established by anal. of vicinal
11 166416-58-8P 168416-63-7P 168416-63

168416-65-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(synthesis and photoisomerization of provitamin D analog with
11.beta., 19-oxide bridge)
168416-58-9 CAPLUS
Androstane-3,17-diol; 5,6:11,19-diepoxy-, 3-acetate 17-(2,2-dimethylpropanoate), (3.beta.,5.beta.,6.beta.,11.beta.,17.beta.)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

168416-59-9 CAPLUS Androst-5-ene-3,17-diol, 11,19-epoxy-, 3-acetate 17-(2,2-dimethylpropanoate), (3.beta.,11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

L28 ANSWER 24 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

131791-19-0 CAPLUS Androstan-17-one, 4-(acetyloxy)-5,6-epoxy-, (4.beta.,5.alpha.,6.alpha.)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 25 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

168416-60-2 CAPLUS Androst-5-ene-3,17-diol, 7-bromo-11,19-epoxy-, 3-acetate 17-(2,2-dimethylpropanoate), (3.beta.,7.alpha.,11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

168416-62-4 CAPLUS Androst-5-en-7-one, 3-(acetyloxy)-17-(2,2-dimethyl-1-oxopropoxy)-11,19-epoxy-, (3.beta.,11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

168416-63-5 CAPLUS Androstane-3,17,19-triol, 5,6-epoxy-, 3-acetate 17-(2,2-dimethylpropanoate), (3.beta.,5.beta.,6.beta.,17.beta.)- (9CI) (CA INDEX

Absolute stereochemistry. Rotation (-).

#### L28 ANSWER 25 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

168416-64-6 CAPLUS Androst-5-ene-3,17-diol, 7-bromo-11,19-epoxy-, 3-acetate 17-(2,2-dimethylpropanoate), (3.beta.,7.beta.,11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

#### Absolute stereochemistry.

168416-65-7 CAPLUS
Benzenesulfonic acid, 4-methyl-, [(3.beta.,11.beta.,17.beta.)-3(acetyloxy)-17-(2,2-dimethyl-1-oxopropoxy)-11,19-epoxyandrost-5-en-7ylidene]hydrazide (9CI) (CA INDEX NAME)

# Absolute stereochemistry. Double bond geometry unknown.

L28 ANSWER 26 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1995:567321 CAPLUS
DOCUMENT NUMBER: 123:112493
Synthesis of 14.beta.—H antiprogestins
AUTHOR(S): Cleve, Arved; Neef, Guenter; Ottow, Eckhard; Scholz,
Stefan; Schwede, Wolfgang
CORPORATE SOURCE: Research Laboratories, Schering AG, Berlin, 13342,
Germany
SOURCE: Tetrahedron (1995), 51(19), 5563-72
CODDE: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
CTHER SOURCE(S): CASNEACT 123:112493
AB An efficient approach to 14.beta.—H antiprogestins is described. The key step of the synthesis is a cleavage of 17-silyl dienol ethers which are generated from the corresponding .DELTA.14-17-ketones, with hydrogen fluoride-pyridine complex. This method gave access to 14.beta.—H analogs of the 11.beta. 19-bridged series as well as of the 10.beta.—H,11B-aryl series in both saries the inversion at C-14 did not lead to greater sephs between antiprogestational and antigluccorticoid activity.

RL: RCT (Resectant), RACT (Resectant or reagent)

## Absolute stereochemistry.

143528-83-0P

143528-83-09
REL: RCT (Reactant): SPN (Synthetic preparation): PREP
(Preparation): RACT (Reactant or reagent)
(synthesis of 14.beta.-H antiprogestins)
143528-83-0 CAPLUS
Estr-15-ene-3, 17-dione, 5,6-epoxy-11-(4-methoxyphenyl)-, cyclic
3-(1,2-ethanediy) acetal), (5.alpha.,6.alpha.,11.beta.,14.beta.)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 25 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

168416-57-7P

168416-57-79
RE: SPN (Synthetic preparation); PREP (Preparation)
(synthesis and photoisomerization of provitamin D analog with
11.beta., 19-oxide bridge)
168416-57-7 CAPLUS
Androstane-3, 17, 19-triol, 5,6-epoxy-, 3-acetate 17-{2,2-dinethylpropanoate}, (3.beta.,5.alpha.,6.alpha.,17.beta.)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry. Rotation (-).

L28 ANSWER 26 OF 38 CAPLUS COPYRIGHT 2003 ACS

L28 ANSVER 27 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1995:382256 CAPLUS
DOCUMENT NUMBER: 1295:382256 CAPLUS
DETERMINENT STREET STRE

Absolute stereochemistry.

L28 ANSWER 28 OF 38 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1995:354838 CAPLUS DOCUMENT NUMBER: 122:178375

122:178375 Steroids and tumor promoter inhibitors containing the steroids Shudo, Koichir Endo, Yasuyukir Hashimoto, Juichi Shudo Koichi, Japan Jpn. Kokai Tokkyo Koho, 9 pp. CODEN: JOXCAF TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 06521782 A2 19941122 JP 1993-112760 19930514

PRIORITY APPLM. INFO.: JP 1993-112760 19930514

AB Steroids I (X = :O, OH, R = OZCRI, CHRZR3; R1 = linear or branched alkyl, linear or branched alkoxy, linear or branched alkyl, linear or branched alkoxy, linear or branched alkoxy,

Absolute stereochemistry.

161036-15-3 CAPLUS

L28 ANSWER 27 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

161535-75-7P RL: SPN (Syn

161535-75-79
RI: SPN (Synthetic preparation), PREP (Preparation)
(detn. of cholesterol oxidn. products in human plasma by isotope-diln.
mass spectrometry)
161535-75-7 CAPLUS
Cholestan-26,26,26,27,27,27-d6-3-ol, 5,6-epoxy-,
(3.beta.,5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 28 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued) Pregnan-3-ol, 5,6-epoxy-20-(3-methylbutoxy)-, acetate, (3.beta.,5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

161036-18-6 CAPLUS Androst-5-en-17-one, 3-[[2-(trimethylsily])ethoxy]methoxy]-, (3.beta.)-(9C1) (CA INDEX NAME)

161036-19-7 CAPLUS Androstan-17-one, 5,6-epoxy-3-[(2-(trimethylsilyl)ethoxy]methoxy]-, (3.beta.,5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

161106-46-3 CAPLUS Silane, (1,1-dimethylethyl)dimethyl[{(3.beta.)-20-(3-methylbutoxy)pregn-5-en-3-yi]oxyj- (9CI) (CA INDEX NAME)

L28 ANSWER 31 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

L28 ANSWER 32 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

139298-03-6P 139238-03-69
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(prepn. and silylation of, with tert-butyldimethylsilyl chloride)
139238-03-6 CAPLUS
Estr-5-ene-3,17-dione, 11-(4-hydroxyphenyl)-, cyclic 3-(1,2-ethanediyl
acetal), (11.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 32 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1994:509371 CAPLUS
DOCUMENT NUMBER: 121:109371 CAPLUS
DOCUMENT NUMBER: 121:109371 CAPLUS
AUTHOR(S): 17-chloro-16(17)-unsaturated D-homo antiprogestins
AUTHOR(S): Schwede, Wolfgang, Cleve, Arwed, Neef, Quenter, Ottow, Eckhard; Stockemann, Klaus; Wiechert, Rudolf
CORPORATE SOURCE: Res. Lab., Schweing AG, Berlin, Germany
SOURCE: Res. Lab., Schweing AG, Berlin, Germany
SOURCE: ODDEN: STEDAN; 159(3), 176-80
CODEN: STEDAN; 159(3), 176-80
CODEN: STEDAN; 15SN: 0039-128X
JOURNENT TYPE: Journal
LANGUAGE: English
AN efficient approach to 17-chloro-16(17)-unsatd. D-homo antiprogestins 1
(Y = Ac, 3-pyridyl) is described. The key steps of the synthesis are a ring-expansion via dichlorocarbene addn. to 17-sllyl enol ether II (TBDMS - tert-butyldimethylsilyl) to give D-homosteroid III and a palladium-catalyzed coupling of 11.beta.-(4-aryltriflate) IV with tributyl(1-ethoxyethenyl) stannane or diethyl(3-pyridinyl) borane to give, after deketalization, I (Y = Ac and 3-pyridyl, resp.). The new progesterone antagonists were tested for their biol. activities and compared to those of know antiprogestins.

I 19927-98-6 CAPLUS
CN Extr-5-ene-3,17-dione, 11-(4-methoxyphenyl)-, cyclic 3-(1,2-ethanediyl acetal), (11.beta.-) (9C1) (CA INDEX NAME)

Absolute stereochemistry.

186332-59-9P
RL: RCT (Reactant), SPN (Synthetic preparation); PREP
(Preparation), RACT (Reactant or reagent)
 (prepn. and hydride redn. of)
16332-59-9 CAPLUS
Estrane-3, 17-dione, 11-[4-[{1,1-dimethylethyl}dimethylsilyl]oxy]phenyl]5,6-epoxy-, cyclic 3-(1,2-ethanediyl acetal), (5.beta.,6.beta.,11.beta.)(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 33 OF 38 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1994:400454 CAPLUS DOCUMENT NUMBER: 121:454 Sterylcellosolves - new

AUTHOR (5):

CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: LANGUAGE:

IP94:400454 CAPLUS
LE: SteryIcellosolves - new inhibitors of cholesterol biosynthesis in rabbit hepatocytes
HOR(5): Misharin, Alexander Yu.; Malugin, Alexander V.; Steinschneider, Alexander Yu.; Kosykh, Vladmir A.; Novikov, Dmitry K.

PORATE SOURCE: Inst. Exp. Cardiol., Cardiol. Res. Cent., Moscow, Russia
RCE: Medicinal Chemistry Research (1993), (7), 451-8
CODEN: MCREEB; ISSN: 1054-2523
JOUAGE: English
Sterylcellosolves such as I-III were prepd. and inhibit cholesterol synthesis in isolated rabbit hepatocytes with ISO = 3.4 x 10-5 - 5.5 x 10-8 M.
ISSZ52-29-2P
RL: RCT (Reactant); SPN: (SVANDA)

155252-29-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(prepn. and alk. hydrolysis or redn. of)
155252-29-2 CAPLUS
Cholest-5-en-7-one, 3-[2-(acetyloxy)ethoxy]-, (3.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

155252-27-OF 155252-33-6P
RL: SPN (Synthetic preparation): PREP (Preparation)
(prepn. and cholesterol biosynthesis in hepatocytes inhibition by)
155252-27-O CAPLUS
Ethanol, 2-[[3.beta..5.alpha.,6.alpha.)-5,6-epoxycholestan-3-yl]oxy](9CI) (CA INDEX NAME)

### L28 ANSWER 34 OF 38 CAPLUS COPYRIGHT 2003 ACS

144653-17-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(prepn. and oxidn. of)
14655-17-8 (APLUS
16,28-Seconolanid-5-ene-28-carboxylic acid, 16-(acetyloxy)-3-hydroxy-,
phenylmethyl ester, (3.beta.,16.beta.,22.alpha.,25.beta.)- (9CI) (CA
1NDEX NAME)

144653-21-4P IT

14453-21-49
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(prepn. and selective acetylation of)
144653-21-4 CAPLUS
16,28-Sacosolanid-5-ene-28-carboxylic acid, 16-{acetyloxy}-3,4-dihydroxy-,
phenylmethyl ester, (3.beta.,4.alpha.,16.beta.,22.alpha.,25.beta.)- (9CI)
(CA INDEX NAME)

L28 ANSWER 35 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1993:39247 CAPLUS
DOCUMENT NUMBER: 119:39247
ITILE: Incorporation of fluorine at position 6 of
17.alpha.-hydromy-20-ketopregnames. Synthesis of
6.alpha.-fluorocortexolone
Ryskhowskaya, M. I., Popowa, E. V.; Alekseeva, L. M.;
Grinenko, G. S.
CORPORATE SOURCE: TSNLS, NYLKHFI, Moscow, Russia
NAMINGOFF AND STREET SOURCE: Khimiko-Faramstevticheskii Zhurnal (1992), 26(6), 65-8
CODEN HYPZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 118:39247
AB EPOXIGH. of 17.alpha.-hydroxyprogesterone I with monoperoxyphthalic acid
gave 78% epoxide II which was fluorinated by HF to give 6-fluoro deriv.
III. The latter was dehydrated in CFGOZDH-AcORT to give 94% enone IV which
was epimerized in HCl. Subsequent sequential treatment with iodide and
KOAC gave 64% hydroxypacetate (cortexolone deriv.) V. An alternative
method for prepn. of the iodoacetate is also described.
110545-20-49 CAPLUS
TI 10545-20-40 CAPLUS
RN: (Pregnamation); PREP
(Preparation); RACT (Reactant); SPN (Synthetic preparation); PREP
(Preparation), RACT (Reactant); This (acetyloxy)-5,6-epoxy-, cyclic
3-1,2-ethamediyl acetal), (S.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)
Absolute stereochemistry.

124113-12-8 CAPLUS Pregnane-3,20-dione, 17,21-bis(acetyloxy)-5,6-epoxy-, cyclic 3-(1,2-ethanediyl acetal), (5.beta.,6.beta.)- (9CI) (CA INDEX NAMZ)

L28 ANSWER 34 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

144653-23-6P
RL: SPN (Synthetic preparation), PREP (Preparation)
(prepn. of)
144653-23-6 CAPJUS
16.28-Seconolanidane-28-carboxylic acid, 16-(acetyloxy)-5,6-epoxy-3-hydroxy-4-oxo-, phenylmethyl ester, (3.beta.,16.beta.,22.alpha.,25.beta.)(9CI) (CA INDEX NAME)

L28 ANSWER 35 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

145013-91-8 CAPLUS Fregnane-3, 20-dione, 21-(acetyloxy)-5,6-epoxy-17-hydroxy-, cyclic 3-(1,2-ethanediyl acetal), (5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

145013-93-0 CAPLUS
Pregnane-3,20-dione, 21-(acetyloxy)-5,6-epoxy-17-hydroxy-, cyclic
3-(1,2-ethanediyl acetal), (5.beta.,6.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

145013-86-1P
RL: SPN (Synthetic preparation), PREP (Preparation)
(prepn. and fluorination by hydrofluoric acid)
145013-86-1 CAPLUS
Pregnane-3,20-dione, 5,6-epoxy-17-hydroxy-, cyclic 3-(1,2-ethanediyl

L28 ANSWER 35 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued) acetal), (5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

145013-88-3P
RL: RCT (Reactant), SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(prepn. and reaction with potassium acetate)
145013-88-3 CAPLUS
Pregn-5-ene-3,20-dione, 17-hydroxy-21-iodo-, cyclic 3-(1,2-ethanediyl acetal), (5.alpha.,6.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 36 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

ΙT 141602-54-2P 141602-54-2P
REL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(prepn. and rearrangement of)
141602-54-2 CAPIUS
Stigmastane-3,4-diol, 5,6-epoxy-, (3.beta.,4.beta.,5.beta.,6.beta.)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

IT 141602-56-4P PRED PRESENT (Synthetic preparation); PREP (Preparation)
(prepn. of)
141602-56-4 CAPLUS
Stigmastane-3,4-dio1, 5,6-epoxy-, 3-acetate, (3.beta.,4.beta.,5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 36 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER:
1992:255868 CAPLUS
TITLE:
Synthesis of 3.beta.,4.beta.-dihydroxy-6-oxo steroids
from .beta.-sitosterol

AUTHOR(5):
Kovganko, N. V., Kashkan, Zh. N.
CORPORATE SOURCE:
Inst. Bioorg. Khia., Ufs. USSR
SOURCE:
CODEN: ZORNAE; ISSN: 0514-7492
Journal
OCCUMENT TYPE:
LANGUAGE:
AB Allylic oxidn. of .beta.-sitosterol by SeO2 gave dihydroxy steroid I which
was epoxidized by m-CloGHc(O)OOH to give 44% epoxide II and 28% epoxide
III. Rearrangement of II with CP3COLP gave 74% dihydroxy deriv. IV;
acctylation of III by Ac2O gave 63% 3-acettate.

Teleparation); RACT (Reactant) reagent)
(Preparation); RACT (Reactant or reagent)
(prepn. and acetylation of)
RN 141602-55-3 CAPLUS
CN Stigmastane-3,4-diol, 5,6-epoxy-, (3.beta.,4.beta.,5.alpha.,6.alpha.)(9CI) (CA INDEX NAME)

Absolute stereochemistry.

141602-53-1P
RL: RCT (Reactant), SPN (Synthetic preparation), PREP
(Freparation), RACT (Reactant or reagent)
(prepn. and epoxidn. of)
141602-53-1 CAPUUS
Stigmant5-ene-3,4-diol, (3.beta.,4.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 36 OF 38 CAPLUS COPYRIGHT 2003 ACS

L28 ANSVER 37 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1991:536481 CAPLUS
DOCUMENT NUMBER: 1591:536481 CAPLUS
TITLE: 1591:536481 CAPLUS
COLOMENT NUMBER: 1591:536481 CAPLUS
TITLE: 1591:536481 CAPLUS
Steroids. CCCLVIII. Revision of the structure of
J-methoxy-14.alpha.-hydroxy-D-homo-1,3,5(10)estratrien-17a-one. A simple proton NMR method for the
determination of configuration of the hydroxy group in
position 5 and/or 14 of the D-homo-steroid skeleton
AUTHOR(S): Budesinsky, Hilos; Xasal, Alexander: Prochasta,
Zelimir Huynh Kim Thoar Vasickova, Sona; Kocovsky,
Pavel
CORPORATE SOURCE: 1nst. Org. Chem. Biochem., Czech. Acad. Sci., Prague,
166 10, Czech.
Collection of Czechoslovak Chemical Communications
(1991), 56(7), 1512-24
CODEN: CCCCAX; ISSN: 0010-0765
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Eignerova and Prochasta found in 1974 the cotton effect value for
3-methoxy-14.alpha.-hydroxy-D-homo-1,3,5(10)-estratrien-17a-one I to be
.DELTA..epsilon. - 2.76. Calcn. of the .DELTA..epsilon. value for this
compd. led, however, to a substantially lower value, which suggested the
hypothesis that the compd. was in fact rather an epimer with the hydroxy
group in 14.bsta.-position. This hypothesis was studied by means of IH
MMR spectra of synthetic models, using the changes of the chem. shifts of
angular methyls, induced by in situ acylation of the angular hydroxyl with
an .alpha.- or .bsta.-configuration with trichloroacetyl incoyanate (TAI).
The obad. TAI-acylation shifts on model compds. indicated the structure I
with a 14.bsta.-configuration of the hydroxyl group. Independent proof
has been given by the synthesis of both 14-hydroxy epimers of I. A simple
H MRR method is proposed for the detn. of configuration of the hydroxyl
in position 5 of 14 of D-homosteroid skeleton.

IT 13603-71-72 PREP (Preperation) RACT (Reactant) reagent
(prepn. and epoxidn. and NMR and configuration of)
RN 136035-71-7 CAPLUS
CN Androst-5-en-1-01, 3-bromo-, (1.beta.,3.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IŤ 136035-70-6P Ris RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and epoxidn. of) 136035-70-6 CAPLUS

L28 ANSWER 37 OF 38 CAPLUS COPYRIGHT 2003 ACS

ANSWER 37 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)
Androst-5-en-17-one, 3-bromo-1-hydroxy-, (1.beta.,3.beta.)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

IT

136035-73-9P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation);
PREP (Preparation); RACT (Reactant or reagent)
(prepn. and redn. and configuration of)
136035-73-9 CAPLUS
Androstan-1-01, 3-bromo-5,6-epoxy-, (1.beta.,3.beta.,5.alpha.,6.alpha.)(9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT

136035-72-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(prepn. and redn. of, with lithium aluminum hydride)
136035-72-0 CATLUS
Androstan-17-one, 3-bromo-5,6-epoxy-1-hydroxy-,
(1.beta.,3.beta.,5.alpha.,6.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 38 OF 38 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1991:102553 CAPLUS
DOCUMENT NUMBER: 1991:102553 CAPLUS
TITLE: Synthesis of the highly oxygenated ergostane type steroid (+)-withanolide E
AUTHOR(S): Perez-Medrano, Arturor Grieco, Paul A.
Dep. Chem., Indiana Univ., Bloomington, IN, 47405, USA
JOURNAL of the American Chemical Society (1991), 113(3), 1057-9
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
The first synthesis of the highly oxygenated ergostane type steroid
(+)-withanolide E (I) in reported. The synthesis commences with the known steroidal diacetate II which has been transformed into I via a sequence of reactions involving (a) a hetero Diels-Alder reaction for the incorporation of the C(14) alpha.-hydroxyl group, (b) introduction of the C(17). beta.-oriented hydroxy (c) stereospecific construction of the C(17). beta.-oriented divoxy (c) stereospecific construction of the C(17). beta.-oriented stereospecific construction of the AB ring system possessing a .beta.-oriented epoxide at C(5), C(6).

II 131759-48-3 CAPLUS
CN Ergosta-5, 24-dien-26-oic acid, 3-(acetyloxy)-1,14,17,20,22-pentahydroxy-, .delta.-lactone, (1.alpha.,3.beta.,17.alpha.,22R)- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

IT

131759-47-2P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PRCT (Reactant or reagent) (prepn. and acetylation and crystal structure of)
131759-47-2 CAPUS
Ergoste-5,24-dien-26-oic acid, 1,3,14,17,20,22-hexahydroxy-,.delta.-lactone, (1.slpha.,3.beta.,17.slpha.,22R)- (9CI) (CA INDEX NAME)

L28 ANSWER 38 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

131759-41-6P
RL: RCT (Reactant), SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(prepn. and deacetylation of)
131759-41-6 CAPLUS
Androst-5-en-17-one, 1,3-bis(acetyloxy)-14-hydroxy-, (1.alpha.,3.beta.)(9CI) (CA INDEX NAME) ΙT

Absolute stereochemistry.

131759-49-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(prepn. and sequential alimination reaction and epoxidn. of)
131759-49-4 CAPUS
Ergosta-5, 24-dien-26-oic acid, 3-(acetyloxy)-14,17,20,22-tetrahydroxy-1-oxo-, .delta.-lactone, (3.beta.,17.alpha.,22R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L28 ANSWER 38 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

L28 ANSWER 38 OF 38 CAPLUS COPYRIGHT 2003 ACS (Continued)

30254-15-8P
RL: SPN (Synthetic preparation), PREP (Preparation)
(prepn. of)
30254-15-8 CAPIUS
Ergosta-2, 24-dien-26-dic acid, 5,6-epoxy-14,17,20,22-tetrahydroxy-1-oxo-,
.delta.-lactone, (S.beta.,6.beta.,17.alpha.,22R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

131759-42-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(prepn. of, as intermediate for withanolide)
131759-42-7 CAPLUS
Androst-5-en-17-one, 1,3,14-trihydroxy-, (1.alpha.,3.beta.)- (9CI) (CA
INDEX NAME)

## => d his

	(FILE	Е 'НОМЕ	E' ENTER	RED AT (	9:0	0:53	ON	07	MAF	200	03)		
L1 L2 L3 L4	FILE	7 154	EACT' EN STRUCTU S L1 S L1 FU S L3 NO	RE UPLO	ADE	ED	:03	ON	07	MAR	2003		
L5	FILE		STRY' EN S DIOXI		T O	9:03:	: 39	ON	07	MAR	2003		
L6 L7 L8 L9 L10		3 154 3	EACT' EN S L3 AN STRUCTU S L7 FU S L8 AN STRUCTU S L10 E	D L5 RE UPLO LL D L5 RE UPLO	ADE	ED	:10	ON	07	MAR	2003		,
L15			STRY' EN STRUCTU STRUCTU STRUCTU S L12 F S L13	RE UPLO RE UPLO	ADE	D D	:50	ON	07	MAR	2003		
		858 846 8	JS' ENTE S L15/F S L5/RC S L17 A S KETON	REP T ND L18		13:32	2 ON	07	MA	AR 20	003		
L21 L22 L23 L24 L25		50	STRY' EN STRUCTU STRUCTU STRUCTU S L22 S L22 F	RE UPLO RE UPLO	ADE ADE	D D	:18	ON	07	MAR	2003		
L26 L27 L28		1836 55	S'ENTE S L25/R S L17 A S L27 N	CT ND L26			O ON	07	' MA	.R 20	003		
=> file reg COST IN U.S. DOLLARS SINCE FILE TOTAL													
	ENTRY SESSIO						SESSION 953.82						
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL													
CA SUBSCRIBER PRICE ENTRY SESSION -24.74 -40.49													
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STRUCTURE FILE UPDATES: 5 MAR 2003 HIGHEST RN 497055-63-7 DICTIONARY FILE UPDATES: 5 MAR 2003 HIGHEST RN 497055-63-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> s 123

SAMPLE SEARCH INITIATED 09:34:11 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 171854 TO ITERATE

0.6% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

50 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*

PROJECTED ITERATIONS: BATCH \*\*INCOMPLETE\*\*

EXCEEDS 1000000

PROJECTED ITERATIONS: EXCEEDS 1000000 PROJECTED ANSWERS: EXCEEDS 1000000

L29 50 SEA SSS SAM L23

=> s 123 full FULL SEARCH INITIATED 09:34:17 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - >1,000,000 TO ITERATE

< 11.7% PROCESSED 400000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.10</pre>

133593 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*
BATCH \*\*INCOMPLETE\*\*

PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 1000000

L30 133593 SEA SSS FUL L23

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 148.15 1101.97

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL

CA SUBSCRIBER PRICE

ENTRY SESSION 0.00 -40.49

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FILE COVERS 1907 - 7 Mar 2003 VOL 138 ISS 11 FILE LAST UPDATED: 6 Mar 2003 (20030306/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 130/rct 11545 L30 2498896 RCT/RL L31 5819 L30/RCT (L30 (L) RCT/RL)

=> d his

L5

(FILE 'HOME' ENTERED AT 09:00:53 ON 07 MAR 2003)

L4 134 S L3 NOT PY>=2000

FILE 'REGISTRY' ENTERED AT 09:03:39 ON 07 MAR 2003 106 S DIOXIRANE

FILE 'CASREACT' ENTERED AT 09:04:10 ON 07 MAR 2003

L6 3 S L3 AND L5 L7 STRUCTURE UPLOADED

L8 154 S L7 FULL L9 3 S L8 AND L5

L10 STRUCTURE UPLOADED

L11 14 S L10 FULL

FILE 'REGISTRY' ENTERED AT 09:11:50 ON 07 MAR 2003

L12 STRUCTURE UPLOADED
L13 STRUCTURE UPLOADED
L14 STRUCTURE UPLOADED

09/091,627 Page 55

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L15 1995 S L12 FULL
L16
          50 S L13
    FILE 'CAPLUS' ENTERED AT 09:13:32 ON 07 MAR 2003
L17
          858 S L15/PREP
          846 S L5/RCT
L18
L19
           8 S L17 AND L18
L20
            0 S KETONE/FG.RCT
   FILE 'REGISTRY' ENTERED AT 09:23:18 ON 07 MAR 2003
     STRUCTURE UPLOADED
L21 '
L22
             STRUCTURE UPLOADED
L23
             STRUCTURE UPLOADED
          50 S L22
L24
      21091 S L22 FULL
   FILE 'CAPLUS' ENTERED AT 09:28:20 ON 07 MAR 2003
         1836 S L25/RCT
L27
           55 S L17 AND L26
L28
           38 S L27 NOT PY>=2000
    FILE 'REGISTRY' ENTERED AT 09:34:03 ON 07 MAR 2003
L29 50 S L23 .
       133593 S L23 FULL
L30
    FILE 'CAPLUS' ENTERED AT 09:34:39 ON 07 MAR 2003
L31 5819 S L30/RCT
=> s 127 and 131
L32 0 L27 AND L31
=> d his
    (FILE 'HOME' ENTERED AT 09:00:53 ON 07 MAR 2003)
    FILE 'CASREACT' ENTERED AT 09:01:03 ON 07 MAR 2003
L1
          STRUCTURE UPLOADED
L2
            7 S L1
L3
          154 S L1 FULL
L4
          134 S L3 NOT PY>=2000
    FILE 'REGISTRY' ENTERED AT 09:03:39 ON 07 MAR 2003
L5
     106 S DIOXIRANE
    FILE 'CASREACT' ENTERED AT 09:04:10 ON 07 MAR 2003
L6
          3 S L3 AND L5
L7
             STRUCTURE UPLOADED
L8
         154 S L7 FULL
L9 ·
           3 S L8 AND L5
L10
            STRUCTURE UPLOADED
L11
          14 S L10 FULL
   FILE 'REGISTRY' ENTERED AT 09:11:50 ON 07 MAR 2003
L12
              STRUCTURE UPLOADED
L13
              STRUCTURE UPLOADED
L14
              STRUCTURE UPLOADED
L15 1995 S L12 FULL
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L16	50 S L13
L17 L18 L19 L20	FILE 'CAPLUS' ENTERED AT 09:13:32 ON 07 MAR 2003 858 S L15/PREP 846 S L5/RCT 8 S L17 AND L18 0 S KETONE/FG.RCT
L21 L22 L23 L24 L25	FILE 'REGISTRY' ENTERED AT 09:23:18 ON 07 MAR 2003 STRUCTURE UPLOADED STRUCTURE UPLOADED STRUCTURE UPLOADED 50 S L22 21091 S L22 FULL
L26 L27 L28	FILE 'CAPLUS' ENTERED AT 09:28:20 ON 07 MAR 2003 1836 S L25/RCT 55 S L17 AND L26 38 S L27 NOT PY>=2000
L29 L30	FILE 'REGISTRY' ENTERED AT 09:34:03 ON 07 MAR 2003 50 S L23 133593 S L23 FULL
L31 L32	FILE 'CAPLUS' ENTERED AT 09:34:39 ON 07 MAR 2003 5819 S L30/RCT 0 S L27 AND L31